SERVICE MANUAL

RA-1 CHASSIS

MODEL	COMMANDER	DEST.	CHASSIS NO.	MODEL	COMMANDER	DEST. CHASSIS NO.
KP-41T25	RM-Y121	us	SCC-H53L-A	KP-46S17	RM-Y121	Canadian SCC-H58J-A
KP-41T25	RM-Y121	Canad	dian SCC-H58H-A	KP-53S17	RM-Y121	Canadian SCC-H58K-A
KP-46S25	RM-Y118	us	SCC-H53J-A			
KP-53S25	RM-Y118	us	SCC-H53K-A			

Note:

1. This servce manual handles differences from KP-41T15/46 S15/53S15(RA-1 Chassis)service manual only. Please use this service manual together with that of KP-41 T15/46S15/53S15(RA-1 Chassis).

KP-41T15/46S15/53S15(RA-1 Chassis)service manual Part No.

	Service manual	Adjustment Manual
Part No.	9-965-042-01	9-965-043-01

2. Adjustment Manual for this model is separately published.

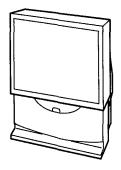
	Adjustment Manual
Part No.	9-965-101-11



RM-Y121 RM-Y118



KP-41T25



KP-46S25/53S25



TRINITRON® COLOR TV SONY

* Please file according to model size.

53

SPECIFICATIONS

Projection system	3 picture tubes, 3 lenses, horizontal in-	Speaker
	line system	
Picture tube	7 inch high-brightness monochrome	Speaker output
	tubes (6.3 rester size), with optical	Power requirem
	coupling and liquid cooling system	Power consump
Projection lenses	High performance, large-diameter	
	hybrid lens F1.0	
Screen size (measure	ed diagonally)	Di
	KP-41T25 41 inches	KP-41T25 95
	KP-46S17 46 inches	(3
	KP-53S17 53 inches	KP-46S17 1,0
		(4:
	KP-46S25 46 inches	KP-53S17 1,2
	KP-53S25 53 inches	(4)
		KP-46S25 1,0
Screen brightness	KP-41T25 1900 cd/m ²	(4)
	KP-46S17 1500 cd/m ²	KP-53S25 1,2
	KP-53S17 1200 cd/m ²	(4)
	KP-46S25 1500 cd/m ²	Supplied access
		commander RM
	KP-53S25 1200 cd/m ²	RM
Television system	American TV standards	141
Channel coverage	VHF: 2-13 / UHF: 14-69 /	Optional access
	CATV : 1-125	Optional access
Antenna	75 ohm external antenna terminal for	
	VHF/UHF	
Inputs/output	VIDEO IN 1	
	S VIDEO IN (4-pin mini DIN):	
	Y: 1 Vp-p, 75-ohms	
	unbalanced, sync negative	
	C: 0.286 Vp-p (Burst signal) 75 ohms	
	VIDEO (phone jack):	
	1 Vp-p, 75-ohms	
	unbalanced, sync negative	
	AUDIO (phone jacks):	
	500 mVrms (100% modulation)	
	Impedance: 47 kilohms	Design and spec
	VIDEO INPUT 2 and VIDEO IN 3	
	VIDEO (phone jacks):	
	1 Vp-p, 75-ohms	
	unbalanced, sync negative	
	AUDIO (phone jacks):	
	500 mVrms (100% modulation)	4
	Impedance: 47 kilohms	
	MONITOR OUT	1
	VIDEO (phone jack):	
	1 Vp-p, 75-ohms	
	unbalanced, sync negative	
	AUDIO (phone jacks) ·	
:	500 mVrms (100% modulation)	
	Impedance: 10 kilohms	

AUDIO OUT (phono jacks): 900 mVrms (100% modulation)

Impedance: 5 kilohms

Speaker		Tuli range speaker					
		100 mm (3.9 inches) diameter					
Speaker out	tput	10 W x 2					
Power requ	irement	120 V, 60 Hz					
Power consumption		220 W					
		Standby mode: 4 W					
	Dimensio	ons (W/H/D)	Mass				
KP-41T25		000 x 588 mm	53 kg				
	(37 1/2 x	39 3/8 x 23 1/4 inches)	(116 lbs 1 oz)				
KP-46S17		,306 x 543 mm	70 kg				
	(42 x 51	1/2 x 21 1/2 inches)	(154 lbs 5 oz)				
KP-53S17	1,218 x 1	,413 x 594 mm	75 kg				
	(48 x 55	3/4 x 23 1/2 inches)	(165 lbs 6 oz)				
KP-46S25	1,066 x 1	,306 x 543 mm	70 kg				
	(42 x 51	1/2 x 21 1/2 inches)	(154 lbs 5 oz)				
KP-53S25	1,218 x 1	,413 x 594 mm	75 kg				
	(48 x 55	3/4 x 23 1/2 inches)	(165 lbs 6oz)				
Supplied ac	cessories		Remote				
commander	RM-Y121	(1)(For KP-41T25,46S1	7/53S17)				
	RM-Y118	3 (1)(For KP-46S25,53S2	25)				
		Size AA (R6) battery (1	.)				
Optional ac	cessories	U/V mixer EAC-66					
		Connecting cables RK-	74A,				
		VMC-810S/820S, YC-1	5V/30V,				
		VMC-720M					
		Video tray SU-PJT2 (Fo	or KP-46S17,				
		KP-53S17,KP-46S25,K	P-53S25)				
		Stand SU-41T1 (For KI	•				
		High - contrast protective					
		SCN-41X1 (For KP-41)	•				
		SCN-46X1 (For KP-46S17,KP-46S25)					
		SCN-53X1 (For KP-53)	S17,KP-53S25)				

Full range speaker

Design and specifications are subject to change without notice.

SAFETY CHECK-OUT

(US model only)

After correcting the original service problem, perfom the following safety checks before releasing the set to the customer:

- Check the area of your repair for unsoldered or poorly-soldered connections. Check the entire board surface for solder splashes and bridges.
- 2. Check the interboard wiring to ensure that no wires are "pinched" or contact high-wattage resistors.
- Check that all control knobs, shields, covers, ground straps, and mounting hardware have been replaced. Be absolutely certain that you have replaced all the insulators.
- 4. Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
- Look for parts which, through functioning, show obvious signs of deterioration. Point them out to the customer and recom mend their replacement.
- 6 Check the line cords for cracks and abrasion. Recommend the replacement of any such line cord to the customer.
- 7. Check the condition of the monopole antenna (if any). Make sure the end is not broken off, and has the plastic cap on it. Point out the danger of impalement on a broken antenna to the customer, and recommend the antenna's replacement
- Check the B+ and HV to see they are at the values specified.
 Make sure your instruments are accurate; be suspicious of your HV meter if sets always have low HV.
- Check the antenna temminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

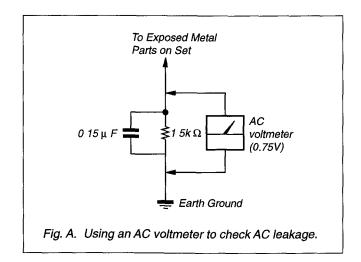
LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5mA (500 microampers). Leakage current can be measured by any one of three methods.

- A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
- A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
- 3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75V, so analog meters must have an accurate lowvoltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable (See Fig. A)

HOW TO FIND A GOOD EARTH GROUND

A cold-water pipe is guaranteed earth ground; the cover-plate retaining screw on most AC outlet boxes is also at earth ground. If the retaining screw is to be used as your earth-ground, verify that it is at ground by measuring the resistance between it and a cold-water pipe with an ohmmeter. The reading should be zero ohms. If a cold-water pipe is not accessible, connect a 60-100 watts trouble light (not a neon lamp) between the hot side of the receptacle and the retaining screw. Try both slots, if necessary, to locate the hot side of the line, the lamp should light at normal brilliance if the screw is at ground potential. (See Fig. B)



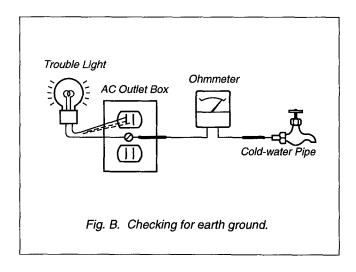


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(CAUTION)

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT. AFTER REMOVING THE ANODE.

WARNING!!

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS.

THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK & ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESECOMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFEOPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

(ATTENTION)

APRES AVOIR DECONNECTE LE CAP DE L'ANODE, COURTCIR-CUITER L'ANODE DU TUBE CATHODIQUE ET CELUI DE L'ANODE DU CAP AU CHASSIS METALLIQUE DE L'APPAREIL, OU AU COUCHE DE CARBONE PEINTE SUR LE TUBE CATHODIQUE OU AU BLINDAGE DU TUBE CATHODIQUE.

ATTENTION!!

AFIN D'EVITER TOUT RISQUE DELECTROCUTION PROVENANT D'UN CHÁSSIS SOUS TENSION, UN TRANSFORMATEUR D'ISOLEMENT DOIT ETRE UTILISÉ LORS DE TOUT DEPANNAGE. LE CHÁSSIS DE CE RECEPTEUR EST DIRECTEMENT RAC-CORDÉ Á L'ALIMENTATION SECTEUR.

ATTENTION AUX COMPOSANTS RELATIFS ÁLA SÉCURITÉ!!

LES COMPOSANTS IDENTIFIÉS PAR UNE TRAME ET PAR UNE MAPQUE ▲ SUR LES SCHÉMAS DE PRINCIPE, LES VUES EXPLOSÉES ET LES LISTES DE PIECES CONT D'UNEIMPORTANCE CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT. NE LES REMPLACER QUE PAR DES COMPOSANTS SONY DONT LE NUMÉRO DE PIÉCE EST INDIQUÉ DANS LE PRÉSENT MANUEL OU DANS DES SUPPLÉMENTS PUBLIÉS PAR SONY. LES RÉGLAGES DE CIRCUIT DONT L'IMPORTANCE EST CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT SONT IDENTIFIES DANS LE PRÉSENT MANUEL. SUIVRE CES PROCÉDURES LORS DE CHAQUE REMPLACEMENT DE COMPOSANTS CRITIQUES, OU LORSQU'UN MAUVAIS FONCTIONNEMENT EST SUSPECTÉ.

SECTION 2 DISASSEMBLY

The operation instruction mentioned here are partial abstracts from the Operating Instruction Manual. The page numbers of the Operating Instruction Manual remein as in the manual (part no: 3-856-233-11)

Getting Started



Thank you for purchasing the Sony Color Rear Video Projection TV. Here are some of the features you will enjoy with your projection TV:

- . AUTO SET UP feature that allows you to set up your projection TV easily by pressing the SET UP
- · On screen menus that let you set the picture quality, sound, and other settings
- Picture-in-Picture that allows you to watch another TV channel, video or cable image as a window
- . On/off timer that allows you to make the TV program of your choice be displayed on the screen for a specified duration
- · Dynamic Focus circuitry that automatically focuses the scanning electron beam for enhanced sharpness, especially at the corners
- Universal remote commander supplied that allows you to operate Sony and other manufacturers' video equipment

About this manual

The instructions in this manual are for models KP-41T25, KP-46S17 and KP-53S17. Before you start reading this manual, please check your model number, located at the rear of the projection TV. Model KP-46S17 is used for illustration purposes in this manual. Model KP-41T25 incorporates two tuners that enable you to operate PIP feature without connecting a VCR. Models KP-46S17 and KP-53S17 incorporate one tuner. These models must be connected to a VCR to enjoy PIP. The differences in specifications are indicated in the text.

Instructions in this manual are based on use of the remote commander. You can also use the controls on the projection TV if they have the same name as those on the remote commander.

Precautions

This projection TV operates on extremely high voltage. To prevent fire or electric shock, please follow the precautions below.

Safety

- Operate the projection TV only on 120 V AC.
 One blade of the plug is wider than the other for safety purposes and will fit into the power outlet only one way. If you are unable to insert the plug fully into the outlet, contact your dealer.
- Should any liquid or solid object fall into the cabinet, unplug the projection TV and have it checked by qualified personnel before operating it further.
- Unplug the projection TV from the wall outlet if you are not going to use it for several days or more. To disconnect the cord, pull it out by the plug. Never pull the cord itself.

For details concerning safety precautions, see the supplied leaflet"IMPORTANT SAFEGUARDS."

Note on cleaning

Clean the cabinet of the projection TV with a dry soft cloth. To remove dust from the screen, wipe it gently with a soft cloth using vertical strokes only. Stubborn stains may be removed with a cloth slightly dampened with solution of mild soap and warm water. Never use strong solvents such as thinner or benzine for cleaning. If the picture becomes dark after using the projection TV for a long period of time, it may be necessary to clean the inside of the projection TV. Consult qualified service personnel.

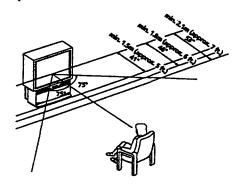
Installing

- . To prevent internal heat build-up, do not block the ventilation openings
- . Do not install the projection TV in a hot or humid place, or in a place subject to excessive dust or mechanical vibration.
- Avoid operating the projection TV at temperatures below 5°C (41°F).
- · If the projection TV is transported directly from a cold to a warm location, or if the room temperature has changed suddenly, the picture may be blurred or show poor color. This is because moisture has condensed on the mirror or lenses inside. If this happens, let the moisture evaporate before using the projection TV.
- To obtain the best picture, do not expose the screen to direct illumination or direct sunlight. It is recommended to use spot lighting directed down from the ceiling or to cover the windows that face the screen with opaque drapery. It is desirable to install the projection TV in a room where the floor and walls are not of reflecting material. If necessary, cover them with dark carpeting or wall paper.

Step 1: Installing the projection TV

For the best picture quality, install the projection TV within the areas shown below.

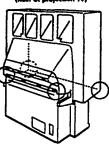
Optimum viewing area (Horizontal)



Carrying your projection TV

Be sure to grasp the portions indicated when carrying the projection TV, and to use more than two people.

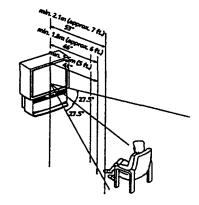
(Rear of projection TV)



Preparing for your projection TV

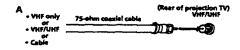
Before you use your projection TV, adjust convergence. For the procedure, see "Step 4: Setting up the projection TV automatically (AUTO SET UP)" on page 18.

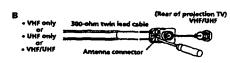
Optimum viewing area (Vertical)

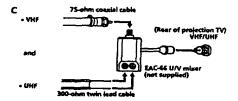


To an antenna

Connect your antenna cable to the VHF/UHF antenna terminal. If you cannot connect your antenna cable directry to the terminal, follow one of the instructions below depending on your cable type.





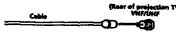


Notes

- Most VHF/UHF combination antennas have a signal splitter.
 Remove the splitter before attaching the appropriate connector.
- If you use the U/V mixer, snow and noise may appear in the picture when viewing cable TV channels over 37(W+1).

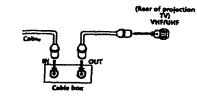
Connecting an antenna/cable TV system without a VCR

To cable or antenna

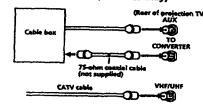


To cable box

If your cable company requires you to connect a cable box, make the connection as follows:



To cable box and cable (KP-41725 only)



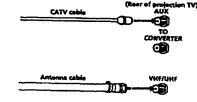
Pay cable TV systems use scrambled or encoded signals requiring the cable box* in addition to the normal cable connection.

" The cable box will be supplied by the cable company.

Note

 You cannot watch the signal through AUX connector as a window picture.

To cable and antenna (KP-41T25 only)



Not

 Do not connect anything to the TO CONVERTER connector in this case.

Connecting an antenna/cable TV system with a VCR

For details on connection, see the instruction manual of your VCR. For KP-46S17/53S17, a VCR must be connected to your TV to watch two TV channels at one time (PIP feature).

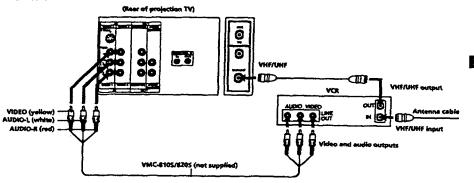
Before connecting, disconnect the AC power cords of the equipment to be connected. After making these connections, you will be able to do the following:

- View the playback of video tapes
- Record one TV program while viewing another program
- Watch two TV programs at one time using a window picture (Picture-in-Picture)

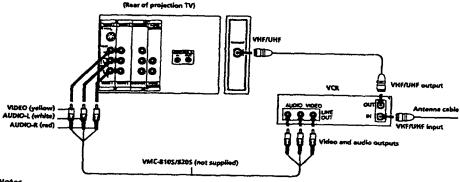
To a conventional VCR

Without a cable box

■ KP-41725



■ KP-46S17I53S17



Notes

- To connect a monatural VCR, connect the audio output of the VCR to AUDIO-L (MONO) of VIDEO 1/3 IN on the projection TV.
- Do not connect the cable to the S VIDEO connector on the projection TV.

Getting Started

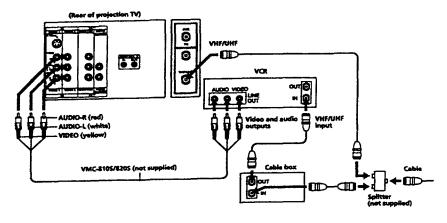
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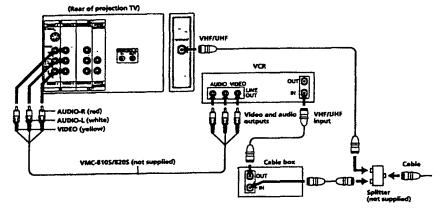
S-EN

Getting Started

■ KP-41725



III KP-46517/53517



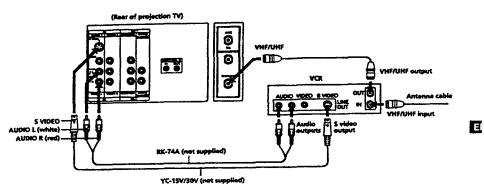
To an S video equipped VCR

If your VCR has an S video output jack, make the connection as follows.

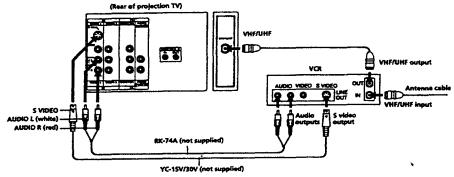
Whenever you connect the cable to the S VIDEO connector, the projection TV automatically receives S video signals.

Without a cable box

■ KP-41T25



■ KP-46S17IS3S17

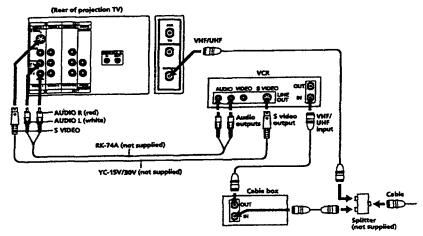


Note

 Video signals are composed of Y (luminance) and C (chroma) signals. The 5 connection sends the two signals separately preventing degradation, and gives better picture quality compared to conventional connection.

Getting Started

E KP-41725

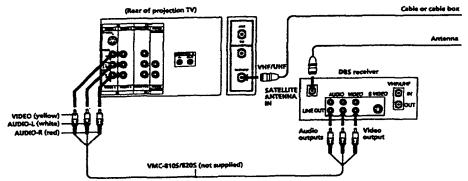


Connecting a DBS receiver

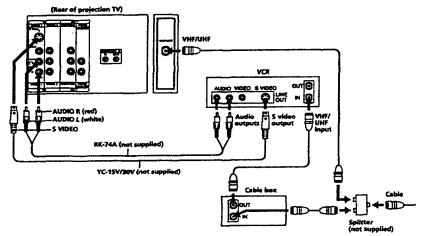
For connection details, see the instruction manual of the DBS (Digital Broadcasting Satellites) receiver.

To a TV

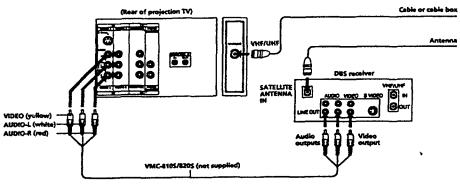
E KP-41725



■ KP-46517/53517



E KP-46S17/53S17



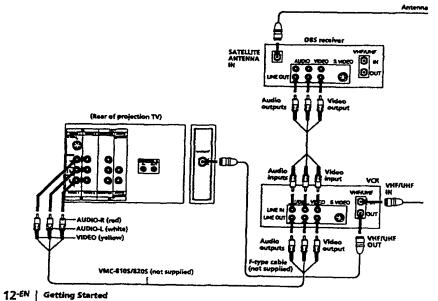
. You can use the S VIDEO jack or the composite video jack for video connection.

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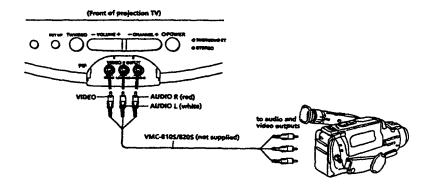
■ KP-46517/53517

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Connecting a camcorder

This connection is convenient for watching the picture from a camcorder.



Note

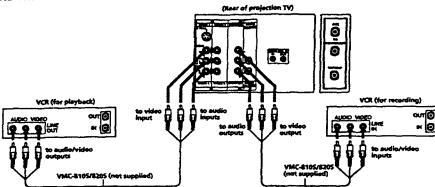
 To connect a monaural camcorder, connect the audio output of the camcorder to AUDIO L (MONO) of VIDEO 2 INPUT on the projection TV.

ΕN

Connecting two VCRs for tape editing

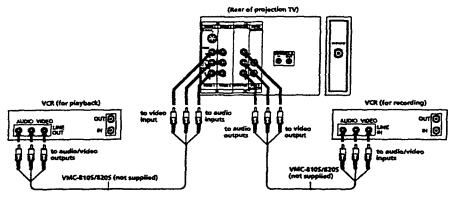
You can record input images displayed on the screen. This type of connection should be used only when you connect from the line input of one VCR, and from the line output of a second VCR.





■ KP-46S17/53S17

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Notes

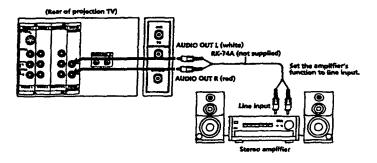
- . Do not change the input signal while editing, or the output signal will also change.
- When connecting a single VCR to the projection TV, do not connect MONITOR OUT to the VCR's line input, while at the same time connecting from the projection TV's VIDEO IN jacks to the VCR's line output.
- . You can use the S video connector to connect a VCR for playback and the composite video jack to connect a VCR for recording.

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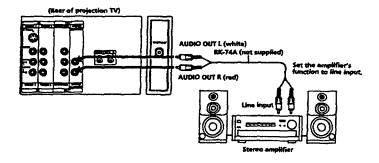
Connecting an audio system

When connecting audio equipment, see page 31 for more information.

■ KP-41T25



■ KP-46517/53517



Nate

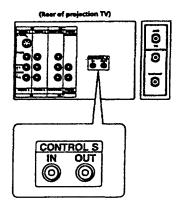
. You can adjust the bass, treble and balance, or select surround or an MTS (Multicharinel TV Sound) mode with the supplied remote commander.

Connecting other Sony equipment with CONTROL S jack

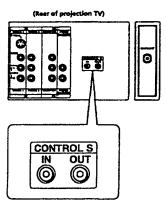
This feature allows you to control your projection TV and other Sony equipment with one remote commander.

- · To control other Sony equipment with the projection TV's remote commander, connect the input of the equipment to CONTROL SOUT jack on the projection TV.
- . To control the projection TV with the remote commander of other Sony equipment, connect the output of the equipment to CONTROLS IN jack on the projection TV.

E KP-41725



E KP-46517/53517



Step 3: Setting up the remote commander

Insert one size AA (R6) bettery (supplied) by matching the + and - on the battery to the diagram inside the battery compartment.

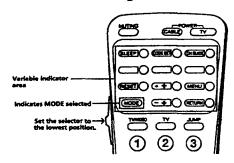


- · With normal use, the battery should last for approximately six
- . If you do not use the remote commander for an extended period of time, remove the battery to avoid possible damage from battery leakage.
- . Do not hardle the remote commander roughly. Do not drop it, step on it or let it get wet.
- Do not place the remote commander in direct sunlight, near a heater, or where the humidity is high.

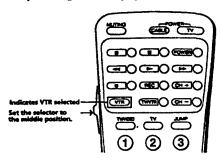
Using the remote commander

The upper half of the remote commander has three selectable operation modes. Each button in this area has three different functions. You can select the mode by sliding a selector on the left side.

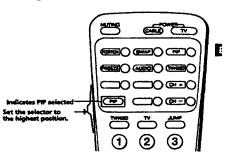
For normal TV viewing



For operating video equipment



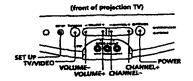
For using the Picture-in-Picture feature



Step 4: Setting up the projection TV automatically (AUTO SET UP)

You can set up your projection TV easily by using AUTO SET UP feature. It presets all the receivable channels, adjusts the convergence and changes the onscreen menu language. To set up the projection TV manually, see "Presetting channels" (page 22), "Setting cable TV on or off" (page 21), "Adjusting convergence" (page 20) and "Changing the menu language" (page 22).

If the projection TV is set to a video input, you cannot execute AUTO SET UP. Press TV/VIDEO so that a channel number appears.



1 Press POWER to turn the projection TV on.



2 Press SET UP on the front of the projection TV.



AUTO SET UP . ICH+I AUTO AJUSTES : KOH-) REGLAGE AUTO: MOL+) MOL-I DEMO: Press Mill to Ett

3 Press CHANNEL+ to start AUTO SET UP. If you prefer Spanish or French to English, you can change the on-screen menu language. Press CHANNEL - for Spanish or VOLUME+ for French.





All of the menus will be set to the factory preset condition in the selected language.

4 Press CHANNEL+ to preset channels.





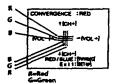
"AUTO PROGRAM" appears on the screen and the TV starts scanning and presetting channels automatically. When all the receivable channels are stored, "AUTO PROGRAM" disappears and the following menu appears. If the projection TV receives cable TV channels, CATV is set to ON automatically.



- 5 Adjust convergence.
 - (1) Press CHANNEL+.

The CONVERGENCE adjustment screen appears.



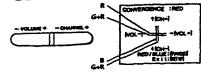


(2) Press TV/VIDEO to select RED or BLUE.





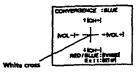
(3) Using CHANNEL+/- or VOLUME+/-, move the line until it converges with the center green line.



To move horizontal line up/down, press CHANNEL

To move vertical line right/left, press VOLUME+/-.

(4) Repeat steps (2) and (3) to adjust the other lines until all three lines converge and are seen as a white cross.

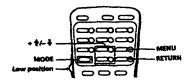


- If more than 90 seconds elapse after you press a button, the menu disappears automatically.
- . In case of using the AUX connector, press the TV button on the remote commander first and make sure that "AUX" is displayed beside the channel number on the screen. Then follow steps 2 to 5 above to perform AUTO SET UP (KP-41T25

To preview the main functions (DEMO) Press VOLUME- in step 3. The functions and menus are displayed one by one.

Erasing or adding channels

After AUTO SET UP you can erase unnecessary channels or add the channels you want. Preset channels during the day rather than late at night, when some channels may not be broadcasting.



1 Press MENU.

The main menu appears.





2 Press + t or - to move the cursor (►) to SET UP and press RETURN.

The SET UP menu appears.





3 Make sure the cursor (>) is beside CHANNEL ERASE/ADD and press RETURN.

If the cursor is not beside CHANNEL ERASE/ ADD, press + 1 or - 1 to move the cursor and press RETURN.

The CHANNEL ERASE/ADD menu appears.





(continued)

- 4 Erase and/or add the channel you want: To erase an unwanted channel:
 - (1) Make sure the cursor (>) is beside ERASE.
 - (2) Press CH + or to select the channel you want to erase.





(3) Press RETURN.

The indication "-" appears beside the channel number, showing that the channel is erased from the preset memory.



To add a channel that you want

- (1) Press + ↑ or ♦ to select ADD.
- (2) Press 0 9 button to select the channel you want to add and press ENTER.





(3) Press RETURN.

The indication "+" appears beside the channel number, showing that the channel is added to the preset memory.



- 5 To erase and/or add other channels, repeat step 4.
- 6 When you finish, press MENU.

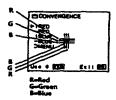


- . If you erase or add a VHF or UHF channel, the cable TV channel with the same number is also erased or added, and
- . If more than 90 seconds elapse after you press a button, the menu disappears automatically.
- Erasing and adding channels are also available for the AUX input (KP-41725 only).

Adjusting convergence (CONVERGENCE)

The projection tube image appears on the screen in three layers (red, green and blue). If they do not converge, the color is poor and the picture blurs. To correct this, adjust convergence. You do not have to do this procedure if you execute AUTO SET UP (page 18). Do this procudure only when you want to adjust it manually.

- 1 Press MENU.
- 2 Press + ↑ or ↓ to move the cursor (>) to SET UP and press RETURN.
- 3 Press + ↑ or ↓ to move the cursor (►) to CONVERGENCE and press RETURN. The CONVERGENCE adjustment screen appears.

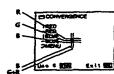


4 Press + ↑ or - ↓ to move the cursor (>) to the symbol showing the line you want to adjust, and press RETURN.



IRED: Red vertical line (left/right adjustment) -RED: Red horizontal line (up/down adjustment) IBLUE: Blue vertical line (left/right adjustment) -BLUE: Blue horizontal line (up/down adjustment)

5 Press + ↑ or - ↓ to move the line until it converges with the center green line, and press RETURN.



To move up/right, press + \$. To move down/left, press ~ ♥.

- 6 Repeat steps 4 and 5 to adjust other lines until all three lines converge and are seen as a white cross.
- 7 Press MENU to return to the original screen.

Setting cable TV on or off

If you have connected the projection TV to a cable TV system, set CABLE to ON, the factory setting. If not, set CABLE to OFF.

You do not have to do this procedure if you execute AUTO SET UP (page 18). Do this procedure only when you want to set it manually.

- 1 Press MENU.
- 2 Press + ↑ or ↓ to move the cursor (►) to SET UP and press RETURN.
- 3 Press + f or f to move the cursor (>) to CABLE and press RETURN.



4 Press + t or - to select ON or OFF and press RETURN.



5 Press MENU to return to the original screen.

. If CABLE appears in black, the projection TV is set to a video input and you cannot select CABLE. Press TV on the remote commander so that a channel number appears.

(continued)

Presetting channels

You can preset TV channels easily by AUTO PROGRAM feature.

You do not have to do this procedure if you execute AUTO SET UP (page 18). Do this procedure only when you want to set it manually.

- 1 Press MENU.
- 2 Press + ↑ or ↓ to move the cursor (►) to SET UP and press RETURN.



3 Press + ↑ or - ↓ to move the cursor (►) to **AUTO PROGRAM and press RETURN.**



"AUTO PROGRAM" appears on the screen and the projection TV starts scanning and presetting channels automatically. When all the receivable channels are stored, "AUTO PROGRAM" disappears and the lowest numbered channel is displayed.

4 Press MENU to return to the original screen.

Notes

- . If AUTO PROGRAM appears in black in the SET UP menu, the projection TV is set to a video input and you cannot select AUTO PROGRAM. Press TV/VIDEO or TV on the remote commander so that a channel number appears.
- . If more than 90 seconds elapse after you press a button, the menu disappears automatically.
- · Presetting channels is also available for the AUX input. (KP-41T25 only)

Changing the menu language

If you prefer Spanish or French to English, you can change the menu language.

You do not have to do this procedure if you execute AUTO SET UP (page 18). Do this procedure only when you want to set it manually.

- 1 Press MENU.
- 2 Press + ↑ or ↓ to move the cursor (>) to SET UP and press RETURN.
- 3 Press + ↑ or ↓ to move the cursor (>) to LANGUAGE and press RETURN.



4 Press + † or - + to select the language and press RETURN.

The menu in selected language appears.



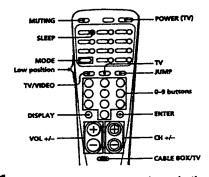
5 Press MENU to return to the original screen.

. Even when you select Spanish or French language, certain parts of the menus remain in English.

Operations

Watching TV programs

Check that the CABLE BOX/TV selector is set to TV.



1 Press POWER (TV) to turn on the projection

The TIMER/STAND BY indicator flashes until the picture appears.



If "VIDEO" appears on the screen, press the TV/ VIDEO or TV button so that a channel number appears.

2 Select the channel you want to watch: To select a channel directly

Press the 0-9 buttons and then press ENTER. For example, to select channel 10, press 1, 0 and ENTER.



To scan through channels

Press CH +/- until the channel you want to watch appears.







Switching quickly between two channels

Press JUMP.

The channel you previously selected with the 0-9 buttons appears.



Pressing JUMP again switches back the channel.

Muting the sound

Press MUTING.

"MUTING" appears on the screen.



To restore the sound, press MUTING again, or press VOL+.

Displaying on-screen information

Press DISPLAY repeatedly until the desired display appears.

Each time you press DISPLAY, the display changes as



- Channel number, the current time, channel caption (if set), and MTS mode (if SAP is selected) are displayed. SAP indication disappears after three seconds.
- Some programs are broadcast with XDS (Extended Data Service) which shows a network name, program name, program type, program length, call letters, and time of the show. When you select XDS with the DISPLAY button, this information will be displayed on the screen if the broadcaster offers this service. (continued)

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Getting Started

***Some programs are broadcast with Caption Vision, When you select Caption Vision with the DISPLAY button, Caption Vision will be displayed on the screen if the broadcaster offers this service. Gee page 38 for selecting Caption Vision.)

To cancel the display, press DISPLAY repeatedly until "DISPLAY OFF" appears. "DISPLAY OFF" goes off after three seconds.

Setting the Sleep Timer

The projection TV stays on for the length of time you specify and then shuts off automatically.

Press SLEEP repeatedly until the time (in minutes) you want appears.

Each time you press SLEEP, the time changes as follows: $30 \rightarrow 60 \rightarrow 90 \rightarrow OFF$.



"SLEEP" appears about one minute before the projection TV shuts off.

To cancel the Sleep Timer, press SLEEP repeatedly until "SLEEP OFF" appears, or turn off the projection TV.

The sleep timer is also cancelled when you select AUTO PROGRAM under the SET UP menu.

Watching a video input picture

Press TV/VIDEO repeatedly until the desired video input appears.

Each time you press TV/VIDEO, the display changes as follows: TV \rightarrow VIDEO 1 \rightarrow VIDEO 2 \rightarrow VIDEO 3.



To return to TV picture, press TV.

Changing the VHF/UHF input to the AUX input (KP-41T25 only)

Press TV.

"AUX" appears beside the channel number.



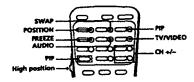
Pressing TV again switches back to the previous input. 24-EN I Operations

Watching two programs at one time - PIP

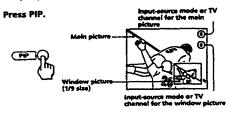
The Picture-in-Picture (PIP) feature allows you to watch both the main picture and a window picture simultaneously.

For KP-46S17/53S17, your projection TV must be connected to a VCR to watch two TV channels at one time. See "Connecting an antenna/cable TV system with a VCR" (pages 7 to 10) for connections.

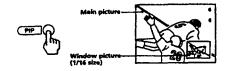
For KP-41T25, the Picture-in-Picture (PIP) feature allows you to watch two TV channels at one time.



Displaying a window picture



Press PIP again to display a smaller window picture.



Each time your press PIP, the size of the window picture changes as follows: 1/9 size → 1/16 size →

To remove the window picture, press PIP repeatedly until the window picture disappears.

Notes

- If the main picture is not receiving an image, the window picture may be in black and white.
- The window picture sound is also output from the AUDIO (VAR/FDO OUT jacks when you listen to it.

Changing the window picture input mode

Press TV/VIDEO in the PIP control area of the remote commander to select the input mode. Each time you press TV/VIDEO, "TV," "VIDEO 1," "VIDEO 2" and "VIDEO 3" appear in sequence.





 If you connect your VCR without a cable box, your PIP input source is a VCR. If you connect your VCR with a cable box, your PIP input source is a VCR or cable box.

Changing TV channels in the window picture

Press CH +/- in the PIP control area.



Listening to the sound of the window picture

Press AUDIO.

")" appears for a few seconds, indicating that the window picture sound is being received.





To restore the main picture sound, press AUDIO again.

Changing the position of the window picture

Press POSITION.

Each time you press POSITION, the window picture will move as illustrated.





Freezing the window picture

This feature is useful when you want to write down a recipe from a cooking program, a displayed address or a phone number and so on.

Press FREEZE.



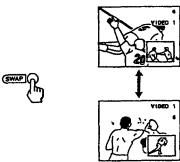


To restore the normal screen, press FREEZE again.

Swapping the main and window pictures

Press SWAP.

Each time you press SWAP, the images and sound from the main and window pictures switch places with another.

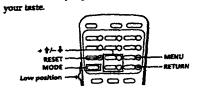


Note (KP-41T25 only)

. The channels being received through the AUX jack cannot be displayed as a window picture.

(PROGRAM PALETTE)

You can select one of three settings for picture and sound effects that best suits the program. You can also adjust picture effect for each setting to suit



- 1 Press MENU.
- 2 Press + 1 or 1 to select PROGRAM PALETTE and press RETURN.





- Select the item you want to adjust. For example:
 - (1) To select MOVIE, press + 1 or 1 to move the cursor to MOVIE.





(2) Press RETURN.



For details on each item, see "Effect of three items" in the right column.

Effect of three items

ftem	Picture effect	Sound effect
STANDARD	Standard	Standard
MOVIE	Finlely detailed picture	Theatrical audio effect
SPORTS	Vivid, bright picture	Sound with a sports stadium effect

Adjusting the picture in PROGRAM PALETTE

- 1 Press MENU.
- 2 Press + ↑ or ↓ to select VIDEO and press RETURN.





3 Press + 1 or - 1 to select MODE and press RETURN.





4 Press + f or - f to select the item which you want to adjust and press RETURN.



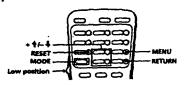


5 Adjust the picture according to the steps 3 to 5 in "Adjusting the picture" on page 27.

To restore the factory setting Press RESET while the VIDEO menu is displayed.

Adjusting the picture (VIDEO)

When watching TV programs, you can adjust the quality of the picture to suit your taste. The adjusted level is stored in PROGRAM PALETTE in which that adjustment is done. You can adjust the picture of video input(s) as well.



- 1 Press MENU.
- 2 Press + ↑ or ↓ to move the cursor to VIDEO and press RETURN.

The VIDEO adjustment menu appears.





- 3 Select the item you want to adjust. For example:
 - (1) To adjust brigtness, press + ↑ or 4 to select BRIGHTNESS.





(2) Press RETURN.





- 4 Adjust the selected item:
 - (1) Press + t or to adjust the item.





(2) Press RETURN.

The new setting appears in the VIDEO menu, and is stored in the displayed PROGRAM PALETTE mode.





For details on each item, see "Description of adjustable items" below.

5 To adjust other items, repeat steps 3 and 4.

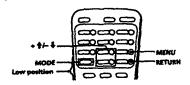
Description of adjustable items.

Item	Press +† to	Press to
PICTURE	increase picture contrast for vivid color	Decrease picture contrast for soft color
HUE	Make overall picture greenish	Make overall picture purplish
COLOR	Increase color intensity	Decrease color intensity
BRIGHTNESS	Brighten the picture	Darken the picture
SHARPNESS	Sharpen the picture	Soften the picture

To restore the factory setting Press RESET on the remote commander,

Adjusting the color temperature (TRINITONE)

The TRINITONE feature controls the color temperature, permitting white balance preference adjustment without affecting skin tones.



- 1 Press MENU.
- 2 Press + † or ‡ to select VIDEO and press
- 3 Press + 1 or 1 to select TRINITONE and press RETURN.





4 Press + † or - ‡ to select NTSC STD, MEDIUM or HIGH and press RETURN.

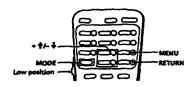




Choose	To
NTSC 5TD	Make the white color reddish.
MEDIUM	Make the white color whitish.
HIGH	Make the white color bluish.

Reducing picture noise (NR)

You can reduce picture noise when NR is set to ON.



- 1 Press MENU.
- 2 Press + f or f to select VIDEO and press RETURN.
- 3 Press + + or + to select NR and press RETURN.





4 Press + 1 or - 1 to select ON and press RETURN.

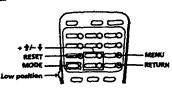




. This feature is useful when watching a weak broadcast signal.

Adjusting sound (AUDIO)

You can adjust the quality of the TV sound to suit your taste. You can adjust the sound of video input(s) as



- 1 Press MENU.
- 2 Press + † or † to select AUDIO and press





- 3 Select the Item you want to adjust.
 - (1) To adjust bass, press + ↑ or ♦ to select BASS.





(2) Press RETURN.





4 Adjust the selected item: (1) Press + ‡ or ~ ₽ to adjust the item.





(2) Press RETURN.

The new setting appears in the AUDIO menu.





For details on each item, see "Description of adjustable items" below.

5 To adjust other items, repeat steps 3 and 4

Description of adjustable Items

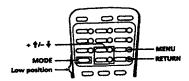
Item	Press + 1 to	Press - + to
TREBLE	Incresse the treble response	Decrease the treble response
BASS	Increase the bass response	Decrease the bass response
BALANCE	Emphasize the right speaker's volume	Emphasize the left speaker's volume

To restore the factory settings Press RESET on the remote commander.

Listening to surround sound

(SURROUND)

The SURROUND feature simulates sound reproduction with the atmosphere of a movie theater or a concert hall. Surround sound is only effective for stereo programs (stereo light indication on).



- 1 Press MENU.
- 2 Press + 1 or 1 to select AUDIO and press
- 3 Press + ↑ or ↓ to select SURROUND and press RETURN.





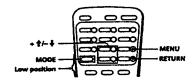
4 Press + 1 or - 1 to select ON and press RETURN.





Selecting stereo or bilingual programs (MTS)

The Multichannel TV Sound (MTS) feature gives you the choice to enjoy stereo sound or Second Audio Programs (SAP) when available. The initial setting is stereo sound (MAIN).



- 1 Press MENU.
- 2 Press + ↑ or ↓ to select AUDIO and press
- 3 Press + † or ‡ to select MTS and press RETURN.





4 Press + 1 or - 1 to select MAIN, SAP or MONO and press RETURN.

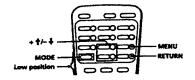


Choose	То
MAIN	Listen to stereo sound.
	The STEREO indicator on the projection TV
	lights up while a stereo broadcast is received.
SAP	Listen to bilingual programs.
	The sound of non-SAP programs will be
	muted when SAP is selected.
MONO	Reduce noise during stereo broadcasts.

· Stereo and SAP sounds are subject to program sources.

Setting the speaker switch (SPEAKER)

You may switch off the projection TV speakers when, for example, you want to listen to the sound through a stereo system.



- 1 Press MENU.
- 2 Press + ↑ or ↓ to select AUDIO and press RETURN.
- 3 Press + 1 or 1 to select SPEAKER and press





4 Press + ↑ or - ↓ to select OFF and press RETURN.

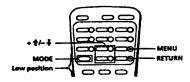




Setting audio out (AUDIO OUT)

You can select audio out to variable or fixed when SPEAKER is set to OFF.

Audio out is variable when SPEAKER is set to ON.



- 1 Press MENU.
- 2 Press + f or f to select AUDIO and press
- 3 Press + 1 or − 1 to select AUDIO OUT and press RETURN.





4 Press + † or - ↓ to select VARIABLE or FIXED and press RETURN.





VARIABLE: Sound output varied according to the projection TV settings. You can adjust the volume, bass, treble and balance.

FIXED:

Sound output is always fixed to a certain level. You cannot adjust the volume.

Setting daylight saving time (DAYLIGHT

SAVING)

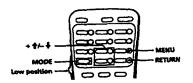
If your area uses daylight saving time, change DAYLIGHT SAVING setting depending on the season, before setting the current time.

Daylight saving start

 After the first Sunday in April, set DAYLIGHT SAVING to YES. Current time setting (page 33) automatically moves one hour ahead.

Daylight saving end

 After the last Sunday in October, set DAYLIGHT SAVING to NO. Current time setting automatically moves one hour back.



- 1 Press MENU.
- 2 Press + † or ‡ to move the cursor (>) to TIMER/CH BLOCK and press RETURN.





3 Press + 1 or - 1 to select DAYLIGHT SAVING and press RETURN.





4 Press + 1 or - 1 to select YES or NO and press RETURN.



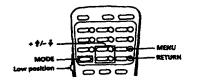


Choose	To	
YES	Set for daylight saving start	
NO	Set for daylight saving end	

Setting the clock:

(CURRENT TIME SET)

Set the current time before using On/off Timer (page 34) and Channel Block features (page 35). For example, set the clock to 3:15 p.m., Monday.



- Press MENU.
- 2 Press + 1 or 1 to select TIMER/CH BLOCK and press RETURN.





If you need to set DAYLIGHT SAVING, follow the procedure on the previous page.

3 Make sure the cursor (>) is beside CURRENT TIME SET, and press RETURN. If the cursor is not beside CURRENT TIME SET, press + ★ or ~ ♦ to move the cursor and press RETURN.





- 4 Set the current time.
 - (1) Press RETURN to start setting the time.





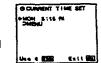
(2) Press + ‡ or - \$\pi\$ to set the day and press RETURN.





(3) Using + ★ or - ♣ and RETURN, set hour and minute in the same way as in step (2). When you press RETURN after setting the minute, the clock starts.





If you make a mistake while setting the time Press RESET while the CURRENT TIME SET menu is displayed, then repeat step 4.

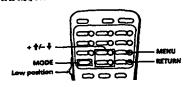
To display the current time Press DISPLAY.

. If you unplug the projection TV or a power interruption occurs, the clock will be erased. Reset the current time.

Setting the timer to turn the projection TV on and off (ON/OFF

TIMER)

You can set the projection TV to turn on and off at the time you specify. Make sure the clock is set correctly. If it is not, set the clock first.



- 1 Press MENU.
- 2 Press + 1 or 1 to select TIMER/CH BLOCK and press RETURN.
- 3 Press + ↑ or ↓ to select ON/OFF TIMER and press RETURN.



- 4 Enter the ON/OFF TIMER setting.
 - (1) Press + ★ or ♣ to select program 1 or 2 and press RETURN.
 - (2) Press + ↑ or ↓ to set the days and press RETURN. Each time you press + ‡ or - ♣, the days cycle as shown below. EVERY SUN-SAT-EVERY MON-FRI-SUNDAY-MONDAY-..-SATURDAY-EVERY SUNDAY-EVERY MONDAY-...→EVERY SATURDAY





(3) Press + ‡ or - ‡ to set the time (hour then minute) that you want to turn on the projection TV and press RETURN.





(4) Press + ↑ or - ♦ to set the hour duration and DIESS RETURN.

You can set the hour duration by one hour up to a maximum of six hours.





(5) Press + ↑ or - ♦ to select the channel and press RETURN.





The TIMER/STAND BY indicator on the projection

5 To set the other program, press RETURN and. repeat step 4.

One minute before the projection TV switches to turn off, a message "TV will turn off." is displayed on the screen.

To cancel the timer

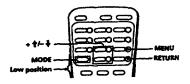
Press RESET on the remote commander.

 If you unplug the projection TV or a power interruption occurs, ON/OFF TIMER settings will be erased. Reset the current time, then set the timer.

Blocking out a channel (CHANNEL BLOCK)

This feature allows you to prevent children from watching unsuitable programs.

Make sure the clock is set correctly. If it is not, set the clock first (page 33).



- 1 Press MENU.
- 2 Press + ↑ or ♦ to select TIMER/CH BLOCK and press RETURN.
- Press + † or + to select CHANNEL BLOCK and press RETURN.





- 4 Enter a CHANNEL BLOCK setting.
 - (1) Press + ‡ or € to select program 1 or 2 and press RETURN.
 - (2) Press + ↑ or 4 to set the days and press RETURN, Each time you press + 1 or - 1, the days cycle as shown below. EVERY SUN-SAT-EVERY MON-FRI-SUNDAY-MONDAY----SATURDAY---EVERY SUNDAY-EVERY MONDAY-____EVERY SATURDAY





(3) Press + 1 or - 1 to set the time (hour then minute) that you want to start blocking the channel and press RETURN.





(4) Press + ↑ or - ♦ to select the hour duration you want to block and press RETURN. Each time you press RETURN, the hour duration increases by one hour up to a maximum of 12 hours.





(5) Press + ↑ or - → to select the channel and press RETURN.





If you select the blocked channel during the time you set, the message "BLOCKED" appears and the picture is blocked and the sound is muted.

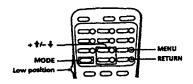
To cancel a CHANNEL BLOCK setting Press RESET on the remote commander.

. If the CHANNEL BLOCK and ON/OFF TIMER settings are overlapped, the later time setting has priority over the other

Customizing the channel number buttons (CH CAPTION/ GUIDE)

You can choose up to 12 channels, caption each channel, and assign a specific channel number button to each channel. This feature allows you to select your favorite channels easily by name. For example, you can name channel 20 "ESPN," and assign the channel number 4 button to it.

Setting captions to favorite channels



- 1 Press MENU.
- 2 Press + ↑ or ↓ to select SET UP and press
- 3 Press + 1 or 1 to select CH CAPTION/GUIDE and press RETURN.



4 Press RETURN again.





5 Press + t or - to select a channel guide number button and press RETURN. Each time you press + ↑ or - ♣, the channel positions change to red in turns. The channel number button you select will be the one you press to call up your favorite channel.

BOH CAPTION/QUIDE

000

@ @ @

0000

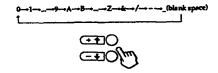


6 Press + 1 or - 1 to select the channel that you want to caption and press RETURN.



- 7 Enter the letters or numbers (up to four) to caption the channel:
 - (1) Press + ★ or ♣ to select the first letter (number).

Each time you press + ↑ or - ♣, the letter (number) changes as shown below.



(2) Press RETURN.





(3) Repeat steps (1) and (2) to select the remaining letters (numbers) and press RETURN.





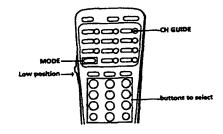
8 Repeat steps 4 to 7 to caption other channels.

To erase a caption Press RESET after step 4.

Notes

- The position number you already selected appears in yellow. . If the CH CAPTION/GUIDE menu appears in black, the projection TV is set to a video input, and you cannot select CH CAPTION/GUIDE. Press TV so that a channel number
- If more than 90 seconds elapse after you press a button, the menu disappears automatically.
- The channel caption feature is not available for the AUX input (ICP-41T25 only).

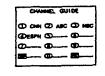
Selecting a captioned channel



1 Press CH GUIDE.

The CHANNEL GUIDE menu appears showing channel captions and the corresponding channel number buttons.



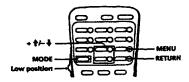


2 Press a channel number button, the DISPLAY or ENTER button to select the channel you want.

To cancel the CHANNEL GUIDE menu Press CH GUIDE again.

Setting video labels (VIDEO LABEL)

This feature allows you to label each input mode so that you can easily identify the connected equipment. For example, you can label VIDEO 1 IN as VHS.



- 1 Press MENU.
- 2 Press + ↑ or ↓ to select SET UP and press RETURN.
- 3 Press + + or + to select VIDEO LABEL and press RETURN.





4 Press + ↑ or - ↓ to select the input mode you want to label and press RETURN.

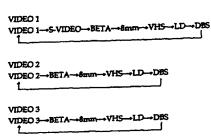




(continued)



Each time you press + ↑ or - ♣, the label changes as shown below.



6 Repeat steps 4 and 5 to label other input modes.

. If more than 90 seconds elapse after you press a button, the menu disappears automatically.

Displaying Caption Vision (CAPTION VISION/

XDS)

Some programs are broadcast with Caption Vision. To display Caption Vision, select either CC1, CC2, CC3, CC4, TEXT1, TEXT2, TEXT3 or TEXT4 from the menu. CCI, CC2, CC3 or CC4 shows you a caption, that is a printed version of the dialog or sound effects of a program. (The mode should be set to CC1 for most programs.)

TEXT1, TEXT2, TEXT3 or TEXT4 shows you text, that is information presented using either half or the whole screen. It is not usually related to the program.

- 1 Press MENU.
- 2 Press + 1 or 1 to select CAPTION VISION/ XDS and press RETURN.





3 Press + 1 or - 1 to select the caption type and press RETURN.

The selected caption type is colored green.





To turn off the captions or text

Press DISPLAY on the remote commander. Each time you press DISPLAY, the display changes as

on-screen information-XDS*-Caption Vision or Text — DISPLAY OFF ←

"DISPLAY OFF" goes off after three seconds.

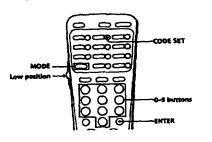
* Some programs are broadcast with XDS service which shows a network name, program name, program length, call letters and time of the show. When you select XDS with the DISPLAY button, this information will be displayed on the screen if the hypericaster offers this service.

 Captions may appear with a white box or another error instead of a certain word. Poor reception of TV programs can also cause errors in Closed Caption.

Operating video equipment

You can operate a piece of video equipment that has an infrared remote sensor with the supplied remote commander. Before operating, set the manufacturer's code number.

Setting the manufacturer's code



While holding down CODE SET, press 0 - 9 to enter the manufacturer's code number (see the chart on page 35) and press ENTER. For example, to operate a Sony 8 mm VCR, press 0, 2 and ENTER.



(continued)

EN

Manufacturer code numbers

Wauguscone, code nomes:				
Manufacturer	Code number			
SONY	01,02,03			
CANON	05			
EMERSON	22, 30, 33			
FISHER	10, 11, 12, 15			
FUNAL	29			
GENERAL ELECTRIC	05, 06			
GOLDSTAR	25			
HITACHI	07, 08, 36			
IVC	16, 35			
MAGNAVOX	05, 06, 09			
MITSUBISHI	18, 19, 26, 27			
MULTITECH	29			
NEC	16, 23, 31			
PANASONIC	05, 06, 37			
PHILCO	05, 06			
PHILIPS	05, 06, 09			
QUASAR	05, 06			
RCA	07, 06			
SAMSUNG	24, 32			
SANYO	11, 15			
SCOTT	21			
SHARP	13, 14			
SHINTOM	34			
SYLVANIA	05, 06, 09			
SYMPHONIC	29			
TEKNIKA	28, 29			
TOSHIBA	20, 21			
TOTE VISION	25			
ZENTIH	17			

MDP manufacturer code numbers

Manufacturer	Code number		
SONY	04		
KENWOOD	58		
MAGNAVOX	52		
MARANZ	54		
MITSUBISHI	51		
PANASONIC	5 5		
PHILIPS	52		
PIONEER	51		
RCA	51		
SANYO	57		
SHARP	56		
YAMAHA	53		

Notes

- . If more than one code number is listed, try entering them one by one, until you come to the correct code for your equipment.
- In some rare cases, you may not be able to operate your non-Sorry video equipment with this remote commander. This is because your equipment may use a code that is not provided with this remote commander. In this case, please use the equipment's own remote control unit.
- The code numbers for Sony equipment are assigned at the factory as follows:

Beta, ED Beta VCRs

8 mm VCR

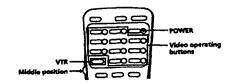
03 (preset code for this remote VHS VCR commander)

Caution

When you remove a battery from the remote commander, the code may revert to 03. Reset the codes each time you replace the battery, if necessary.

40-EN | Operations

Operating video equipment



Use the video operating buttons on the remote commander to operate the video equipment.

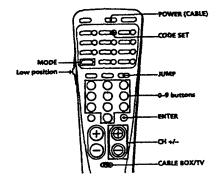
Operating a VCR	Buttons on the remote commander
To turn on or off	Press POWER
To change channels	Press CH +/-
To record	Press • and REC simultaneously
To play	Press -
To stop	Press #
To fast forward	Press >>
To rewind the tape	Press ◄◀
To pause	Press #1
To search the picture forward and backward	Press ►► or ◄◄ during playback

Operating a laser-disc player	Buttons on the remote commander
To play	Press >-
To stop	Press =
To pause	Press ## To resume normal playback, press again.
To search the picture forward and backward	Keep pressing ▶► or ◀◀ during playback To resume normal playback, release the button.
To search the chapter forward and backward	Press CH+/-

. If the video equipment does not have a certain function, the corresponding button on this remote commander will not operate.

Operating a cable box

You can operate a connected cable box with the supplied remote commander. Before operating, set the manufacturer's code number.



1 Set the CABLE BOX/TV selector to CABLE BOX.



2 While holding down CODE SET, press 0 - 9 to enter the manufacturer's code number (see the chart in the right column) and press ENTER. For example, to operate a Zenith cable box, press 6 and 8 and press



3 Use POWER (CABLE) and the projection TV control buttons (0 - 9, ENTER, JUMP and CH +/-) to operate the cable box.







To operate the projection TV

Set the CABLE BOX/TV selector to TV. Then use the projection TV control buttons to control the projection

For more details on operating the cable box Refer to the operating instructions that come with the cable box.

Manufacturers and code numbers (cable box)

Manufacturer	Code number
JERROLD	60, 61, 62, 63, 64, 65, 73
PIONEER	69, 70
SCIENTIFIC ATLANTA	66, 67
TOCOM	71,72
ZENTTH	68

Notes

- . If more than one code number is listed, try entering them one by one until you come to the correct code for your equipment.
- . If you enter a new code number, the code number you previously entered at that setting is erased.
- . In some rare cases, your equipment may use a code that is not provided with this remote commander and you may not be able to operate your cable box with the supplied remote commander. In this case, use the equipment's own remote control unit.
- . When you remove a battery from the remote commander, the code may be erased. Reset the code each time you replace the battery, if necessary.

After trying the methods below, if the problem persists, contact your nearest Sony dealer.

No picture (screen not lit), no sound

- Make sure the power cord is connected securely.
- Check to see if the TV/VIDEO setting is correct: when watching TV, set to TV, and when watching video tapes, set to VIDEO. (page 24)
- → Make sure the CABLE BOX/TV selector is in the correct position. (page 23)
- Try another channel. It could be station trouble.

Poor or no picture (screen lit), good sound

- →Adjust PICTURE in the VIDEO menu.
- → Adjust BRIGHTNESS in the VIDEO menu. (page 27)
- → Adjust the convergence. (page 20)
- → Check antenna/cable connections. (page 6)

Good picture, no sound

- → Press MUTING so that "MUTING" disappears from the screen. (page 23)
- → Check the MTS setting in the AUDIO menu. (page 30)
- → Make sure SPEAKER is set to ON in the AUDIO menu. (page 31)

No color

- → Adjust COLOR in the VIDEO menu. (page 27)
- Confirm that black and white program is not being broadcast.

Only snow and noise appear on the screen

- → Check the CABLE setting in the SET UP menu. (page 21)
- Check the antenna/cable connections. (page 6)
- → Make sure the channel is broadcasting programs.

Dotted lines or stripes

- Adjust the antenna.
- Move the projection TV away from noise sources such as cars, neon signs, and hairdryers.

Double images or ghosts

Use a highly directional outdoor antenna or a cable (when the problem is caused by reflections from nearby mountains or tall buildings.)

Cannot operate menu

- → If the item you want to choose appears in black, you cannot select it. Press TV/ VIDEO correctly.
- → Check the CABLE setting in the SET UP menu. (page 21)

Cannot receive upper channels (UHF) when using an antenna

- → Check if CABLE is OFF in the SET UP menu. (page 21) ·
- → Use AUTO PROGRAM to add receivable channels that are not presently in the memory. (page 22)

Cannot receive any channels when using cable

- → Check if CABLE is ON in the SET UP menu. (page 21)
- → Use AUTO PROGRAM to add receivable channels that are not presently in the memory. (page 22)

Remote commander does not operate

- → Battery could be weak. Replace the battery. (page 17)
- → Make sure the projection TV's power cord is connected securely to wall outlet.
- → Set the CABLE BOX/TV selector to TV when operating your projection TV.
- → Are fluorescent lights too close to the projection TV? Move lights at least 3 – 4 feet away from the projection TV.

Commander's power, channel up/down, channel buttons do not function

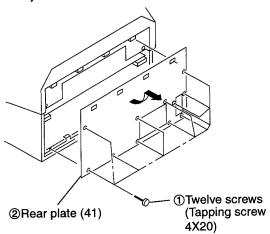
→ Set the CABLE BOX/TV selector to the correct position. (page 41)

Cannot gain enough volume when using a cable box

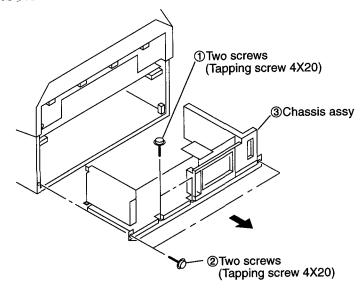
→ Increase the volume at the cable box. Then set the CABLE BOX/TV selector to TV and adjust the projection TV's volume. (page 41)

SECTION 2 DISASSEMBLY

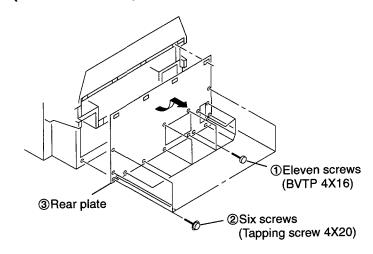
2-1-1. REAR PLATE REMOVAL (KP-41T25)



2-2. CHASSIS ASSY REMOVAL

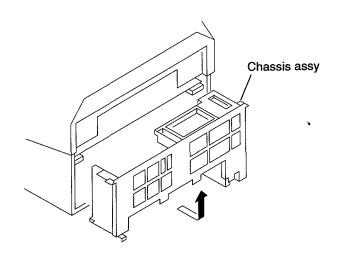


2-1-2. REAR PLATE REMOVAL (KP-46S25/53S25)

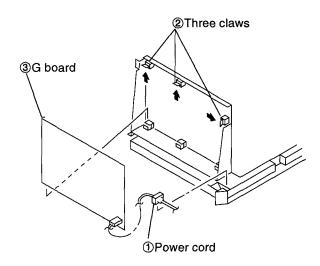


2-3. SERVICE POSITION

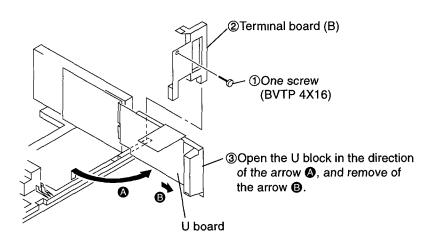
· Remove the chassis assy (Refer to 2-2.)



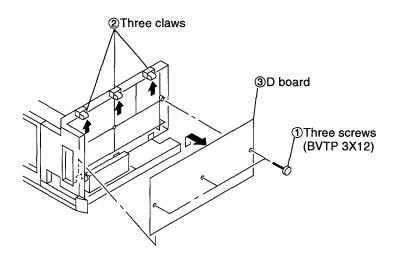
2-4. G BOARD REMOVAL



2-6. U BOARD REMOVAL

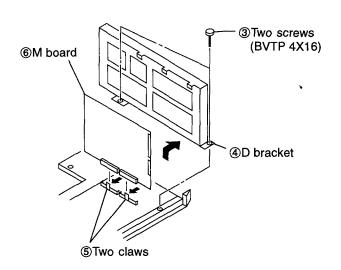


2-5. D BOARD REMOVAL

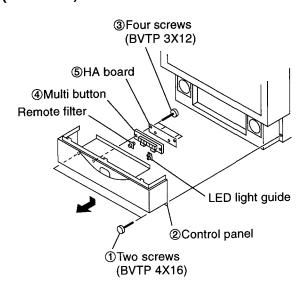


2-7. M BOARD REMOVAL

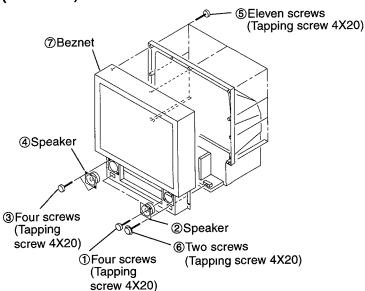
- ① Remove the D board. (Refer to 2-5.)
- 2 Remove the U board. (Refer to 2-6.)



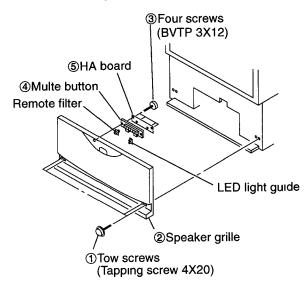
2-8-1. HA BOARD REMOVAL (KP-41T25)



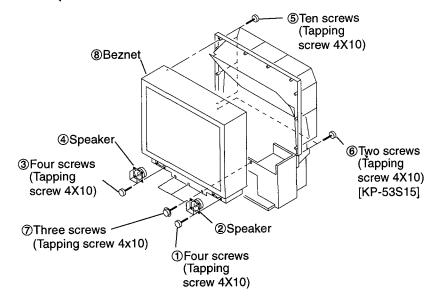
2-9-1. BEZNET REMOVAL (KP-41T25)



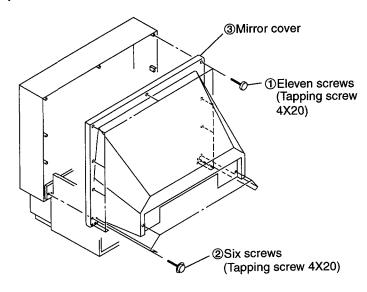
2-8-2. HA BOARD REMOVAL (KP-46S25/53S25)



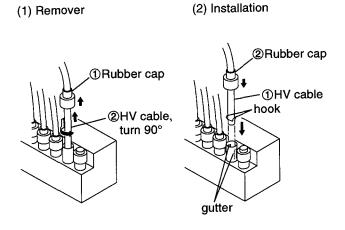
2-9-2. BEZNET REMOVAL (KP-46S25/53S25)



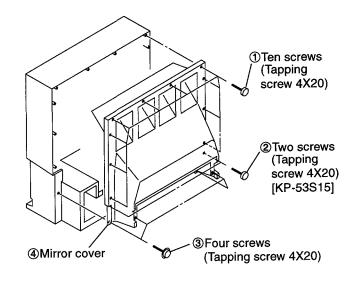
2-10-1. MIRROR COVER REMOVAL (KP-41T25)



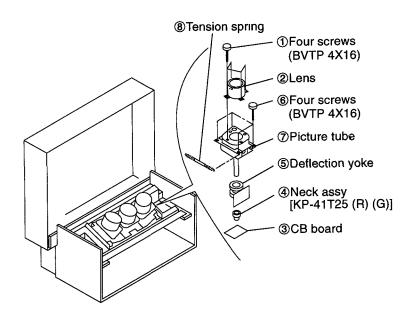
2-11.HIGH-VOLTAGE CABLE INSTALLATION AND REMOVAL



2-10-2. MIRROR COVER REMOVAL (KP-46S25/53S25)



2-12. PICTURE TUBE REMOVAL



SECTION 3 SAFETY RELATED ADJUSTMENTS

ADJUSTMENT ITEM AND PROCEDURE	EQUIPMENT AND SIGNAL	MEASUREMENT POSITION	ADJUSTMENT LOCATION	ILLUSTRATION AND SHAPE AND NUMBER
HV HOLD DOWN CIRCUIT OPERATIONS CHECK AND ADJUSTMENT (*M RESISTOR)			* ■ R809, R988	E BOARD – COMPONENT SIDE –
When replacing the parts marked * on the right, check the HV hold down and adjust.		* marked parts C818, D804, D806, D809, D909, D912, Q915, R809, R855, R856, R857, R858, R954, R955, R983, R984, R988, R991, R995, R996, R998, T801,T803 FBT E board HV Block		CN886 CN885
 Remove the cap for the unconnected pin in the *high-voltage block and connect a *Static Voltmeter meter. Input 130 VAC power. 	*Static Voltmeter	*HV Block		* Remove the cap off from the unused terminal and connect a static voltmeter there.
Receive the *Dot siganl and set the *PICTURE and BRIGHTNESS settings to their minimums.	*Dot pattern		*PICTUREminimum BRIGHTNESSminimum	,
 Connect a *33 kΩ variable resistor across the E board *CN885 connector (with the variable resistor set to its maximum). 				* CN885

- 29

ADJUSTM	ENT ITEM AND PROCEDURE	EQUIPMENT AND SIGNAL	MEASUREMENT POSITION	ADJUSTMENT LOCATION	ILLUSTRATION AND SHAPE AND NUMBER
that the hold down reading of *33.7 ± 6. If the hold down of Static Voltmeter resistor *R809 and If hold-down can kΩ resister, use a If the hold down of Static Voltmeter resistor R809 and 7. Check Item 5 again HV REGULATION (*M RESISTOR) When replacing the pregulation and adjust. 1. Remove the cap for block and connect 2. Input 120 VAC possible 3. Receive the *Dot	circuit operates and the rasters disappear at a ading of *32.9 VDC or lower, remove mount *6.2 kΩ 1/4W RN at *R988. In. CIRCUIT CHECK AND ADJUSTMENT arts marked * on the right, check the HV or the unconnected pin in the *high-voltage ta *Static Voltmeter.	*Static Voltmeter *Dot pattern	* marked parts C918, C930, C934, C980, D902, D920, D925, Q909, R808, R851, R929, R936, R939, R942, R944, R945, R946, R947, R950, R960, R965, R967, R971, R975, R976, R982, R983, R985, R998	*R988 *R988 *PICTUREminimum BRIGHTNESSminimum	*33.7 ± 0.75 kVDC *34.45 VDC or higher *16.0 kΩ 1/4W *32.95 VDC or lower *6.2 kΩ 1/4W R809 R988 E BOARD – COMPONENT SIDE – CN886 CN885 CN884 CN886 CN885 CN884 R809 RR809 RR808

ADJUSTMENT ITEM AND PROCEDURE	EQUIPMENT AND SIGNAL	MEASUREMENT POSITION	ADJUSTMENT LOCATION	ILLUSTRATION AND SHAPE AND NUMBER
 Check that the Static Voltmeter reading is *31. ^{40.45}/_{-0.65} kVDC. If the Static Voltmeter reading is *30.4 kV or lower, remove resistor *R808 and mount *5.6 kΩ 1/4W RN at *R983. If the Static Voltmeter reading is *31.4 KV or higher, remove resistor *R808 and mount *8.2 kΩ 1/4W RN at *R983. If the Static Voltmeter reading is *32.0 kV or higher, remove resistor *R808 and mount *10.0 kΩ 1/4W RN at *R983. If any of Items 5, 6 or 7 has been implemented, check Item 4 again. 			*R983 *R983 *R983	*31.0 * .0.45 kVDC *30.4 kV or lower *5.6 kΩ 1/4W *31.4 KV or higher *8.2 kΩ 1/4W *32.0 kV or higher *10.0 kΩ 1/4W R808 R983
HV HOLD DOWN AND HV REGULATOR SIMPLE ADJUSTMENT It is normally desirable that the HV hold down and HV regulation checks use a high-voltage meter. However, sometime one is not available, for example in the field, below is a simple adjustment method. When replacing parts with the mark, replace both the resistors with the mark *R808 (R988) and *R809 (R983) with resistors one rank lower in the E-12 series. Do not replace just one of these resistors! Always replace both with resistors one rank lower.			*R808 (R988) *R809 (R983)	* E board CN886 CN885 O O O O O O O O O O O O O O O O O O O

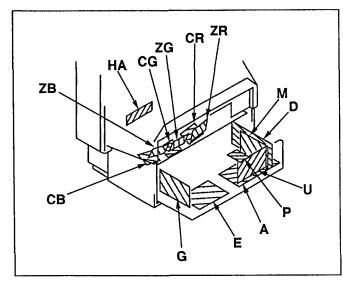
ADJUSTMENT ITEM AND PROCEDURE	EQUIPMENT AND SIGNAL	MEASUREMENT POSITION	ADJUSTMENT LOCATION	ILLUSTRATION AND SHAPE AND NUMBER
OVERVOLTAGE PROTECTION (OVP) OPERATIONS CHECK				
 Connect a *220 kΩ variable resistance rheostat to the G board C655 (between Pins ③ and ⑤ of IC651). 				* IC651 \$\subseteq (\frac{1}{5}\) (\frac{4}{3}\) (\frac{1}{5}\) (\frac{1}{220kΩ}\)
 Input *120.0 ± 1.0 VAC, 60 Hz power. Receive the *Dot signal and set the *PICTURE and BRIGHTNESS settings to their minimums. 	*Dot pattern		*PICTUREminimum BRIGHTNESS	*120.0 ± 1.0 VAC, 60 Hz
 4. Gradually lower the value of the connected variable resistance and check that when the +B line *voltage is *143.5 ± 5.5 VDC, the overvoltage circuit operates and the rasters disappear. 5. Remove the variable resistor and check the +B line voltage. 	*Digital Multimeter		minimum	*143.5 ± 5.5 VDC
BEAM CURRENT (∑IK) PROTECTION CIRCUIT CHECK				
 Connect the *ABL ammeter between *Pins ① and ④ of the CN884 on the E board. Have Pins ② and ③ open. 	*Ammeter			* CN884 (E board) 5 0 0 0 0 1 ABL ammeter
 Input *120.0 ± 1.0 VAC, 60 Hz power. Receive a *monoscope signal and set the *PICTURE and BRIGHTNESS settings to their minimums. 	*Monoscope pattern		*PICTUREminimum BRIGHTNESSminimum	*120.0 ± 1.0 VAC, 60 Hz

ADJUSTMENT ITEM AND PROCEDURE	EQUIPMENT AND SIGNAL	MEASUREMENT POSITION	ADJUSTMENT LOCATION	ILLUSTRATION AND SHAPE AND NUMBER
4. Gradually raise the *PICTURE and BRIGHTNESS settings and check that below an *ABL current of 3.35 mA (including dark current), the beam current protection circuit operates and the rasters disappear.			*PICTURE BRIGHTNESS	*Less than 3.35 mA
+B, +B MAX CHECK When replacing the G board IC651, check the following.				E BOARD – COMPONENT SIDE –
				1C651 4
 Input *120.0 ± 1.0 V, 60 Hz power. Receive the *Dot signal and set the *PICTURE and BRIGHTNESS settings to their minimums. 	*Dot pattern		*PICTUREminimum BRIGHTNESS	*120.0 ± 1.0 V, 60 Hz
 Check that the *+B line voltage is now *135.0 ± 2.0 VDC. Set the power supply to *130.0 +2.0 VAC. Check that the *+B line voltage is *137.0 VDC max. If either 3 or 5 is not satisfied, replace IC651 again. 		*CN681 pin ① *CN681 pin ①	minimum	*135.0 ± 2.0 VDC *130.0 ^{+2.0} VAC *Less than 137.0 VDC

MEMO
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-5

SECTION 4 DIAGRAMS

4-1. CIRCUIT BOARDS LOCATION



4-2. PRINTED WIRING BOARD AND **SCHAMATIC DIAGRAMS**

Note:

• All capacitors are in μF unless otherwise noted, pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.

 All resistors are in ohms. $k\Omega = 1000 \Omega$, $M\Omega = 1000 k\Omega$

• Indication of resistance, which dose not have one for rating electrical power, is as follows.

Pitch: 5mm Rating electrical power: 1/4W

• - : nonflammable resistor.

: fusible resistor.

Δ : internal component.

: panel designation and adjustment for repair.

• All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

: earth-chassis.

• The components identified by E in this basic schematic diagram have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation.

Should replacement be required, replace only with the value originally used.

• When replacing components identified by , make the necessary adjustments indicated. If results do not meet the specified value, change the component identified by E and repeat the adjustment until the specified value is achieved.

(Refer to R808, R809, R983 and R988 adjustment on Page 29 - 33 \

• When replacing the part in below table, be sure to perform the related adjustment.

Part replaced ()	Adjustment (🖸)
HVBlock Q915, D804, D806, D809, D909, D912, C818, R809, R855, R856, R857, R858, R954, R955, R983, R984, R988, R991, R995, R996, R998, T801(FBT), T803 E BOARD	HV HOLD-DOWN (R809, R988)
HV Block, Q909, D902, D920, D925, C918, C930, C980, R808, R851, R929, R936, R939, R942, R944, R945, R946, R947, R950, R960, R965, R967, R971, R975, R976, R982, R983, R985, R998E BOARD	HV Reagurator (R808, R983)

Reference information

RESISTOR : RN METAL FILM : RC SOLID : FPRD NONELAMMABLE CARBON : FUSE NONFLAMMABLE FUSIBLE NONFLAMMABLE WIREWOUND : RW NONFLAMMABLE METAL OXIDE : RS NONFLAMMABLE CEMENT : RB : * ADJUSTMENT RESISTOR : LF-8L MICRO INDUCTOR COIL CAPACITOR : TA **TANTALUM** : PS STYROL · PP POLYPROPYLENE : PT **MYLAR** METALIZED POLYESTER : MPS : MPP METALIZED POLYPROPYLENE

> : ALB **BIPOLAR**

HIGH TEMPERATURE : ALT

HIGH RIPPLE : ALR

- · As to the voltage volue shown by the semiconductors on the Schematic Diagram, see the another list.
- · Readings are taken with a color-bar signal input.
- ullet Readings are taken with a 10M Ω digital multimeter.
- Voltages are dc with respect to ground unless otherwise noted.
- Voltage variations may be noted due to normal production tolerances.
- All voltages are in V.
 - *: Measurement impossibility.
- · Circled numbers are waveform references.

: B + bus.

=== : B - bus.

• : signal path.(RF)

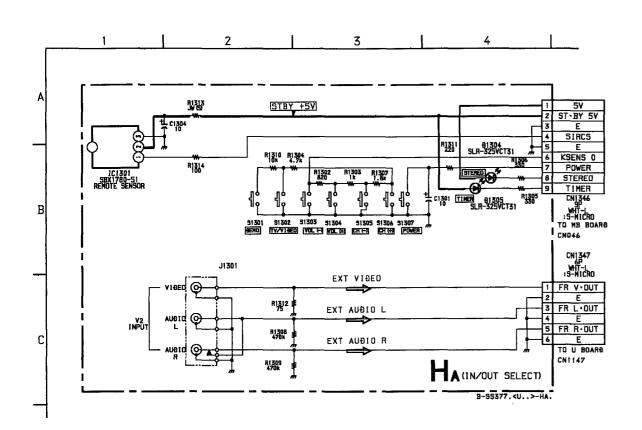
Note: The symbol display is on the component side.

> The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

The symbol - indicate fast operating fuse. Replace only with fuse of same rating as maked.

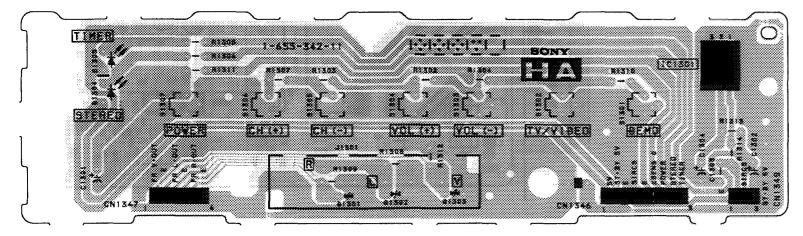
Note: Les composants identifiés per un tramé et une marque ∆ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

Le symbole Indique une fusible a action rapide. Doit etre remplacee par une fusible de meme yaleur, comme maque.





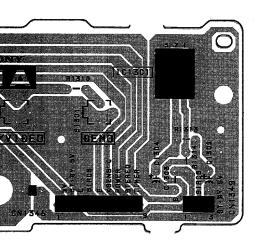
- HA BOARD -



Schematic diagrams

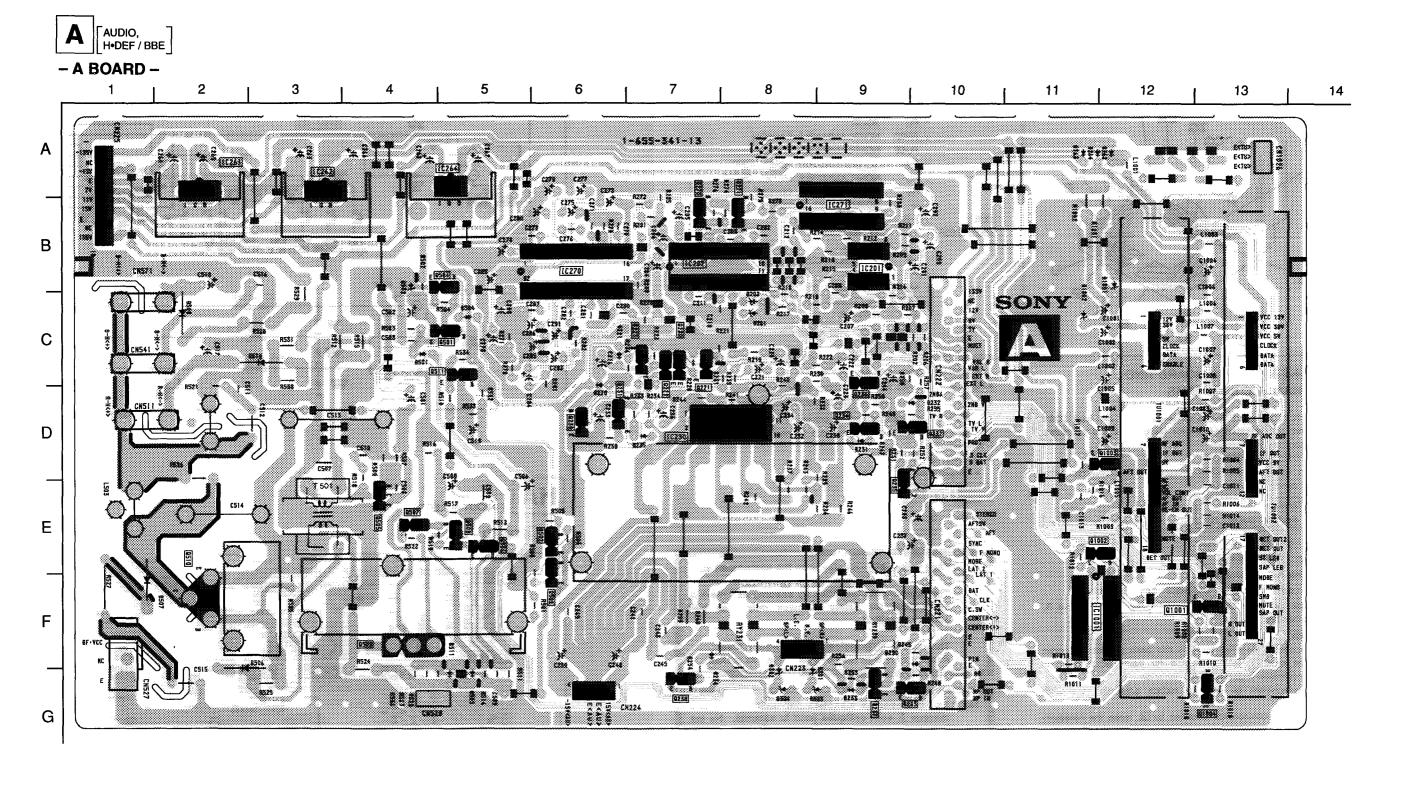
← HA board

BY 5V
E IRCS
E ENS 0
DWER
ERED
IMER
1346
HICRO
HB BOARS HI347
HICRO
VOUT
E
LOUT
E
ROUT
E
BOARB



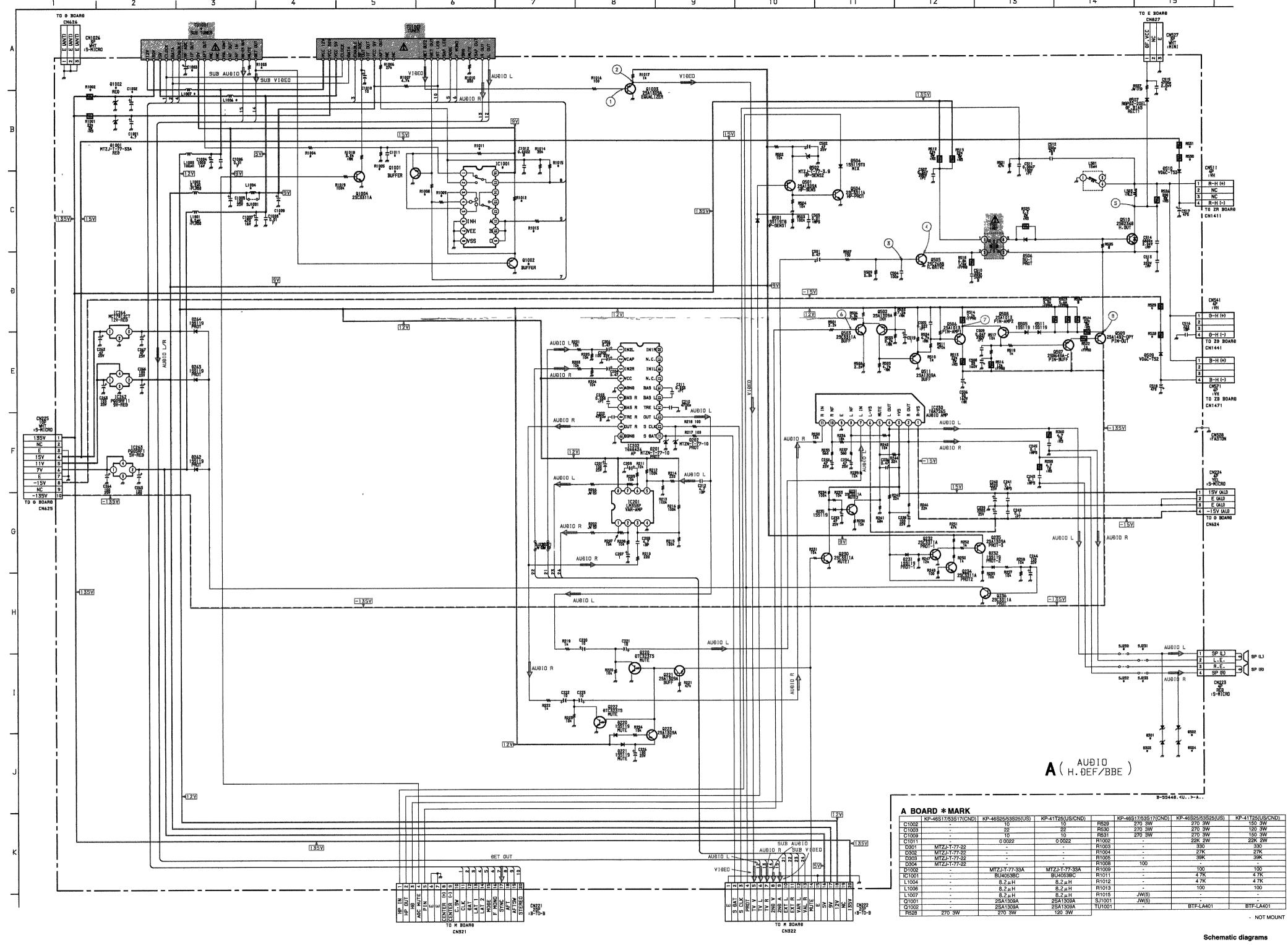
- 38 -	_	JO	-	
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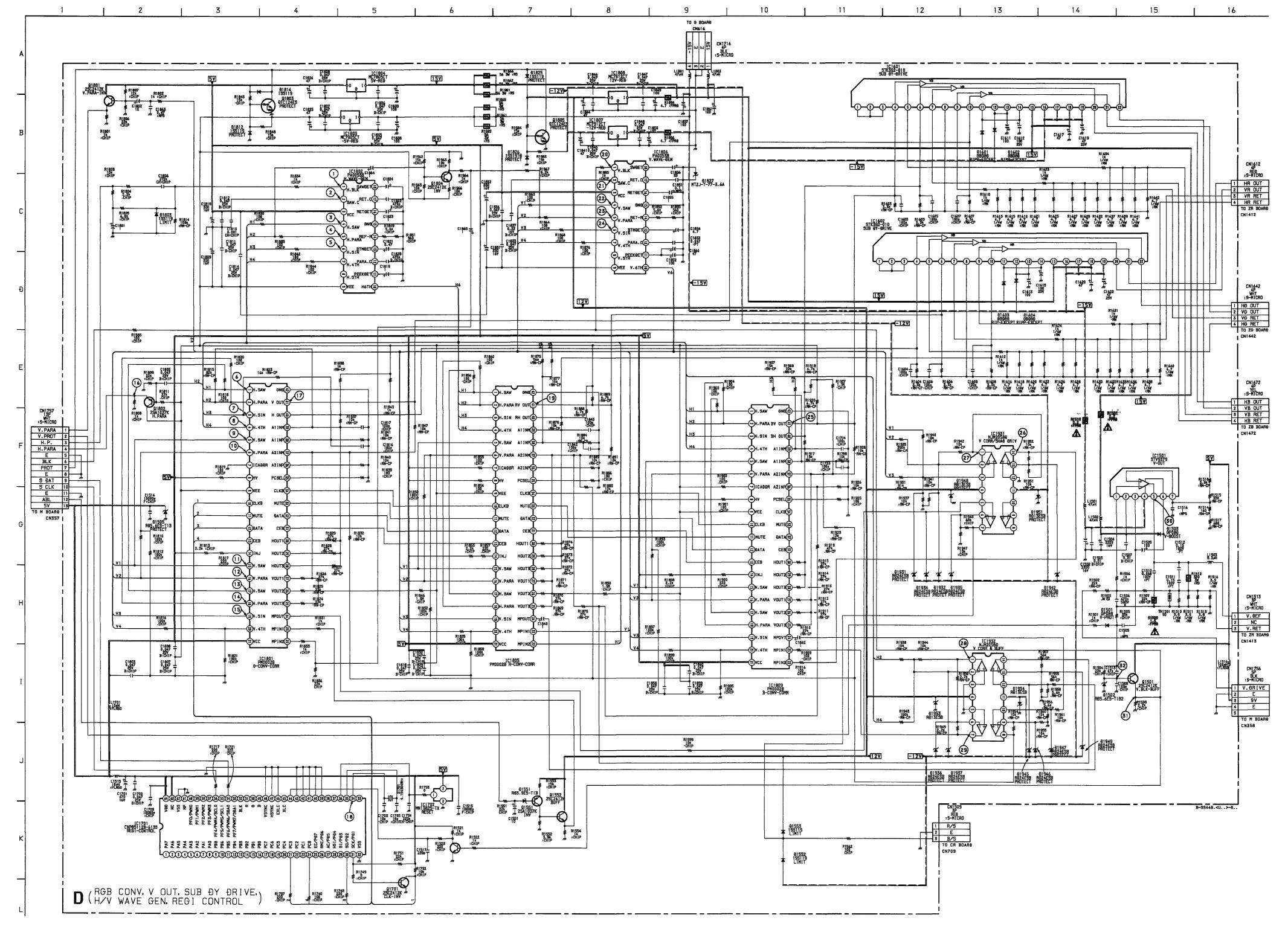
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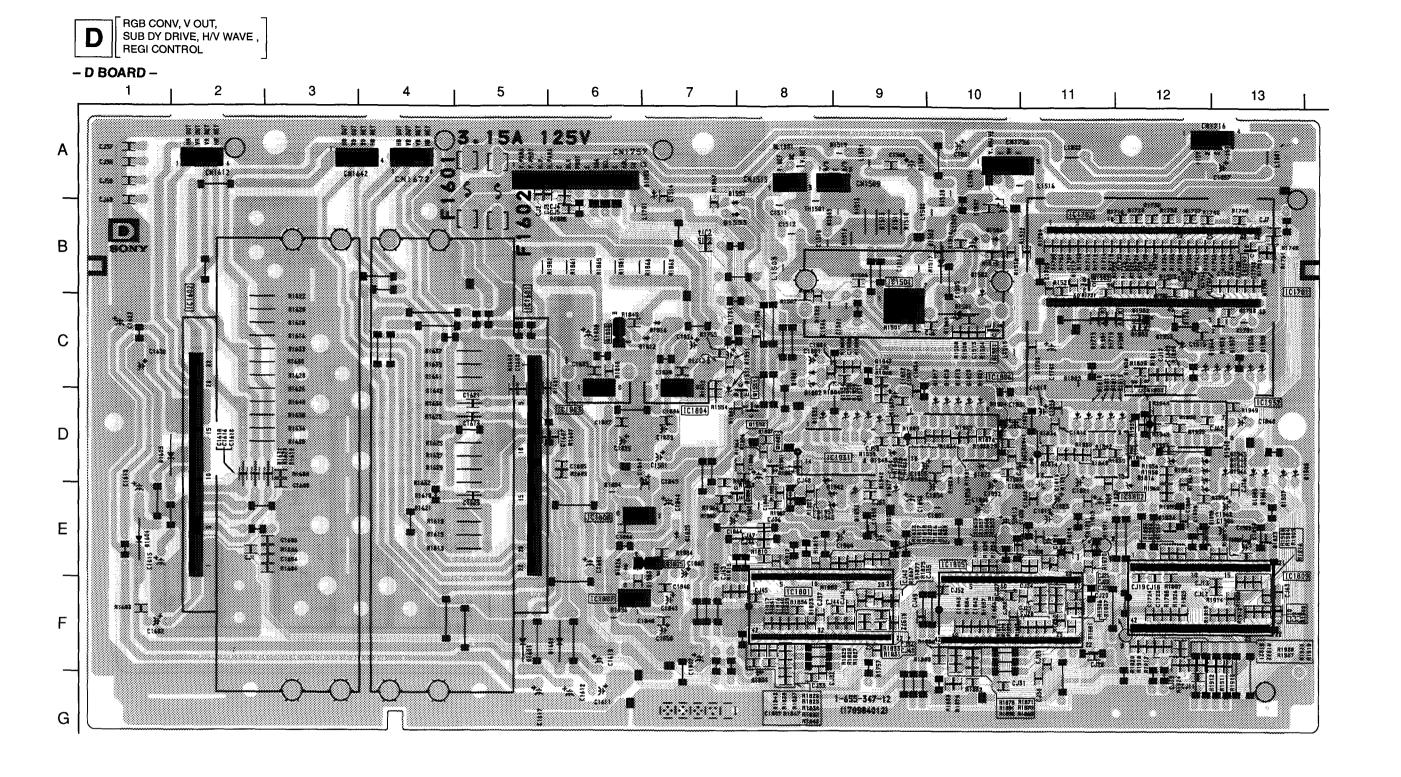


- 39 -

IC270



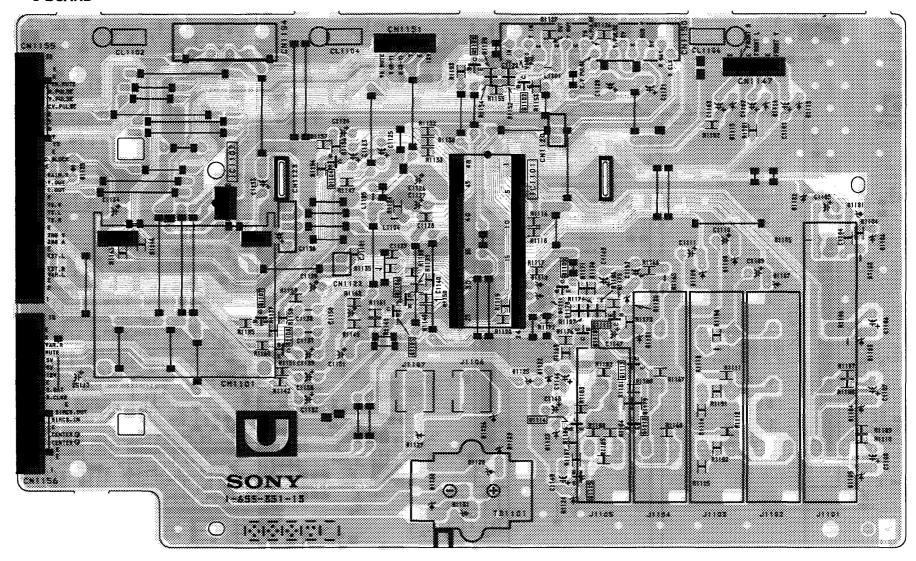


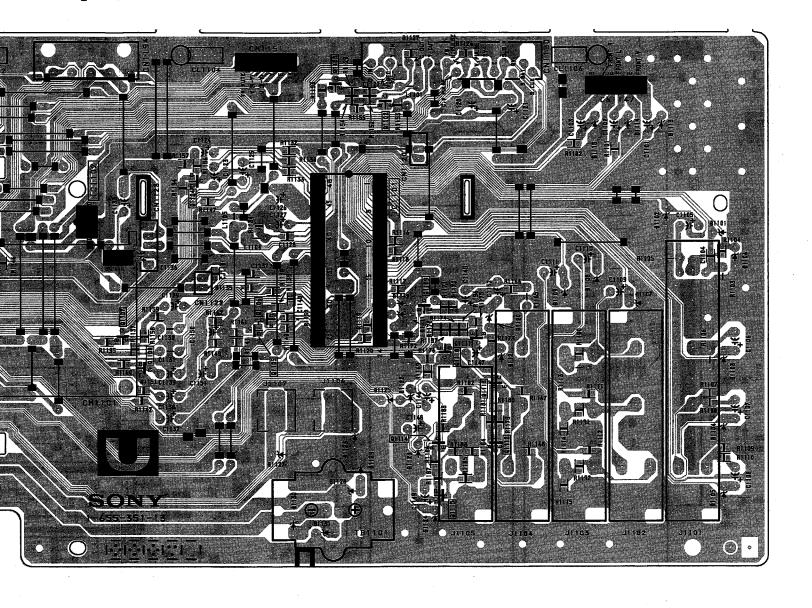


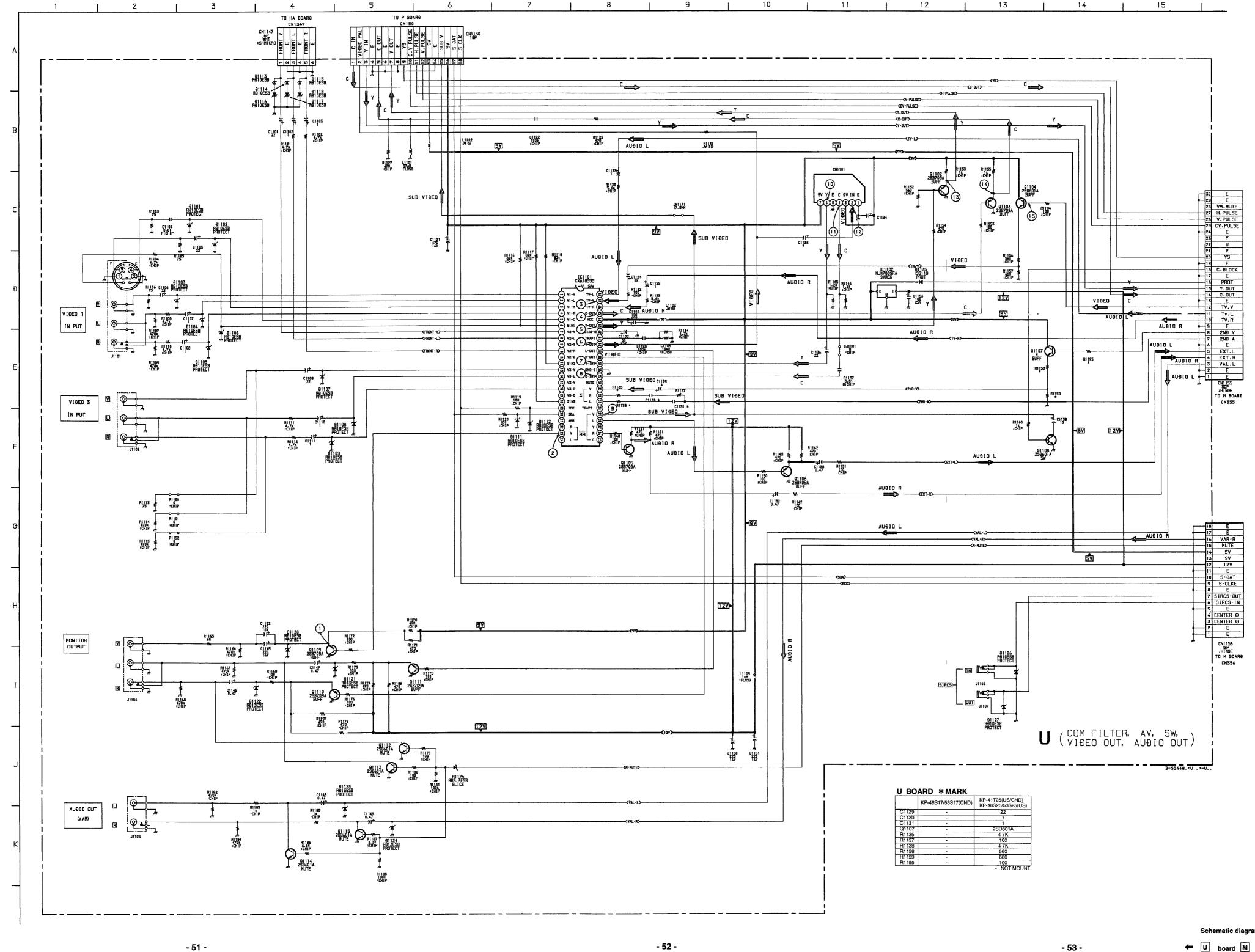
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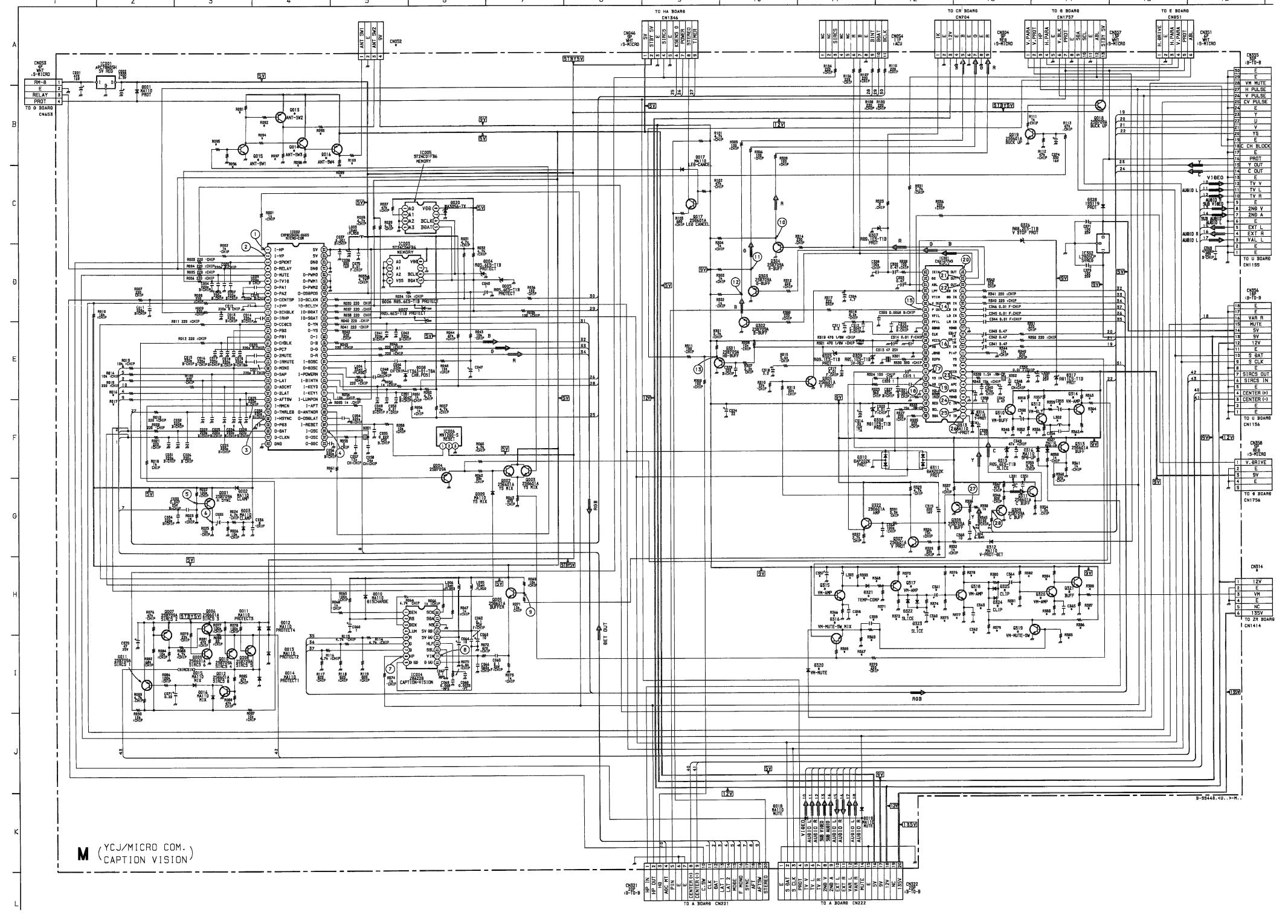


- U BOARD -









- 55 -



В С D

	\mathbf{p}	ADD	* MARK	
IVI	nu,	ARIJ	* MAKK	

	KP-41T25(US/CND)	KP-46S17/53S17(CND)	KP-46S25/53S25		KP-41T25(US/CND)	KP-46S17/53S17(CND)	KP-46S25/53S25		KP-41T25(US/CND)	KP-46S17/53S17(CND)	KP-46S25/53S25
350	10	·		Q312	2SD601A	<u>-</u>	-	R369	3.3K		
354	22P	-	-	Q314	2SD601A	-	-	R371	1.0K	-	-
355	22	-	-	Q315	2SD601A	-	-	R372	1.2K	•	-
357	47 25V	-	-	Q316	2SD601A	-	-	R373	270	-	
358	15P	-	-	Q317	2SB709A	-	-	R374	33K		-
359	220P	-	-	Q318	2SD601A	-	•	R375	12K	-	•
360	10		-	Q319	2SD601A	-	-	R376	68K	-	•
361	10		-	Q320	2SD601A	-	-	R377	560		
362	22P	-	-	Q321	2SD601A	-		R378	2.7K		•
363	0.001	-	<u>-</u>	R348	1.0K	-	-	R379	27K	•	•
364	10		-	R352	2.2K	-	-	R380	100K		•
365	22P	•	-	R353	6.8K	-	-	R381	8.2K		•
N314	6P	•	-	R356	180	•	-	R382	33K		•
0320	MA110	-	-	R357	180	-	-	R383	560		•
321	MA110	-	-	R359	330	•	-	R384	1.5K	-	•
322	MA110	-	•	R362	270	•	-	R385	33K	•	•
0323	MA110	-	-	R363	1.0K	•	-	R386	1.0M		
324	MA110	-	•	R364	100	-	•	R387	1.0K	•	•
0325	MA110	-	•	R366	1.5K			R388	100		•
C002	CXP85332A-046S	CXP85340A-06S	CXP85332A-046S	R367	2.2K	-		R389	220		*
310	2SD601A		-	R368	100	-		R393	1K	1	

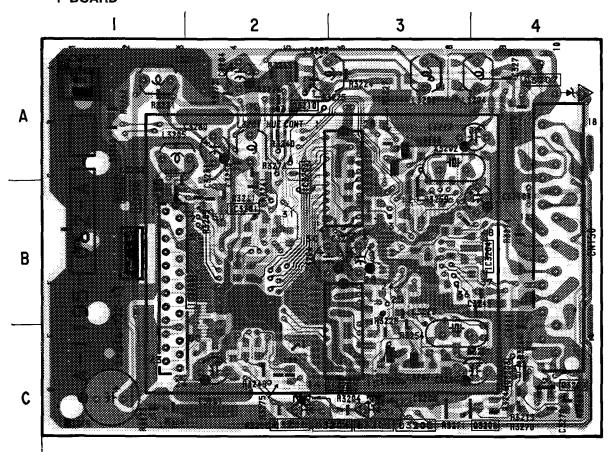
- 57 -

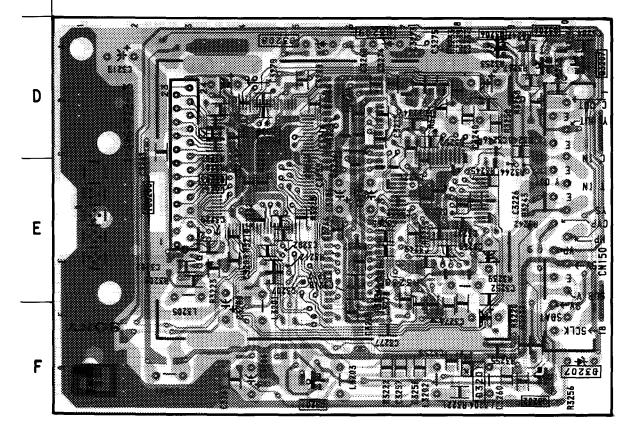
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			BEACN055	ness E E
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				MIND S
		1013	100	
2 1523 E E		(434 A020 A027		
1 31 GS05 1 GS05 1				C083 C000 C000 C000 C000
			武皇政	1004 Cura
				(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)
		至其		COL
				0012 0015 0015 0015
				C025
		CIAC AND SALE	Ra61	C026

(D)	KP-46S17/53S17(CND)	KP-46S25/53S25		KP-41T25(US/CND)	KP-46S17/53S17(CND)	KP-46S25/53S25
		-	R369	3.3K	- ' '	-
	•		R371	1.0K	•	-
		•	R372	1.2K	-	
	-	-	R373	270	-	-
	-	•	R374	33K	-	
	-	•	R375	12K	-	•
	-		R376	68K		•
	-	•	R377	560	-	-
	-		R378	2.7K	-	-
	- 1		R379	27K	-	-
		-	R380	100K	- 1	•
	-	•	R381	8.2K	-	-
	- .	•	R382	33K	-	
	-		R383	560		-
		•	R384	. 1.5K	-	-
		•	R385	33K	-	-
	•	•	R386	1.0M	-	-
	-	-	R387	1.0K	-	•
		-	R388	100	-	•
			R389	220		-
	-	-	R393	1K	<u> </u>	



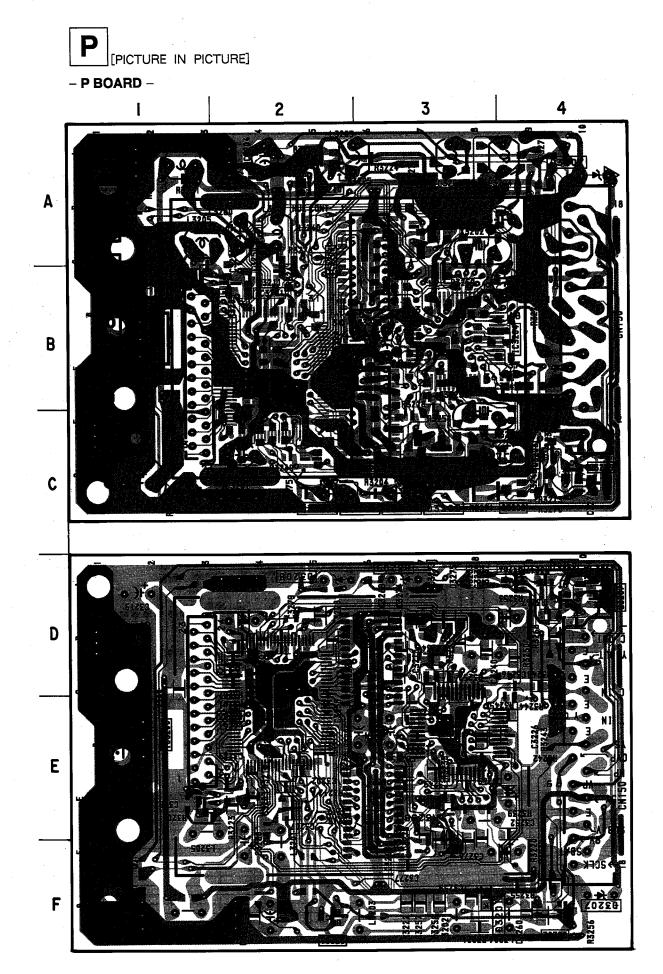
– P BOARD ~





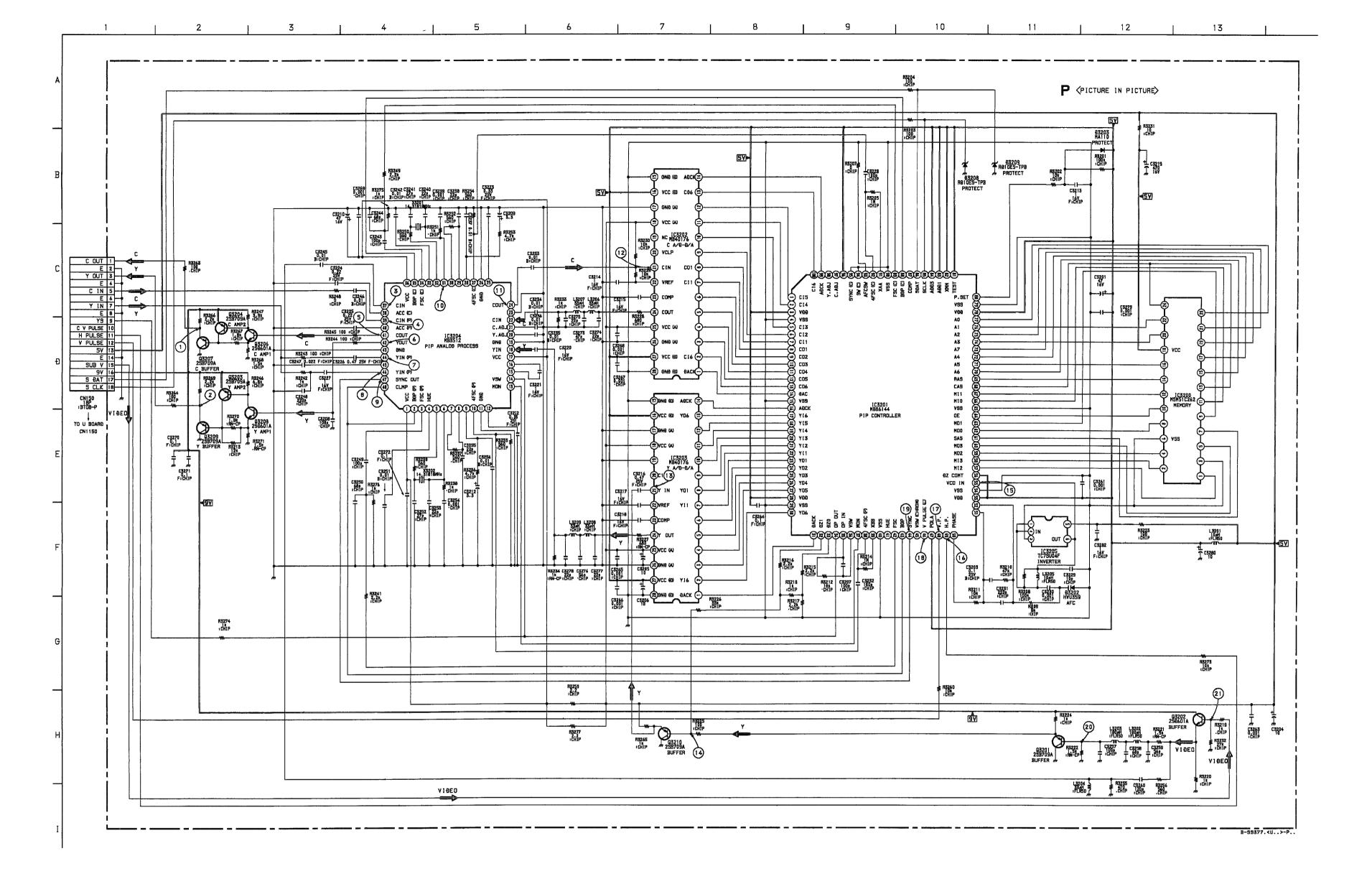
Note ·

- Pattern from the side which enables seeing.
- Pattern of the rear side.

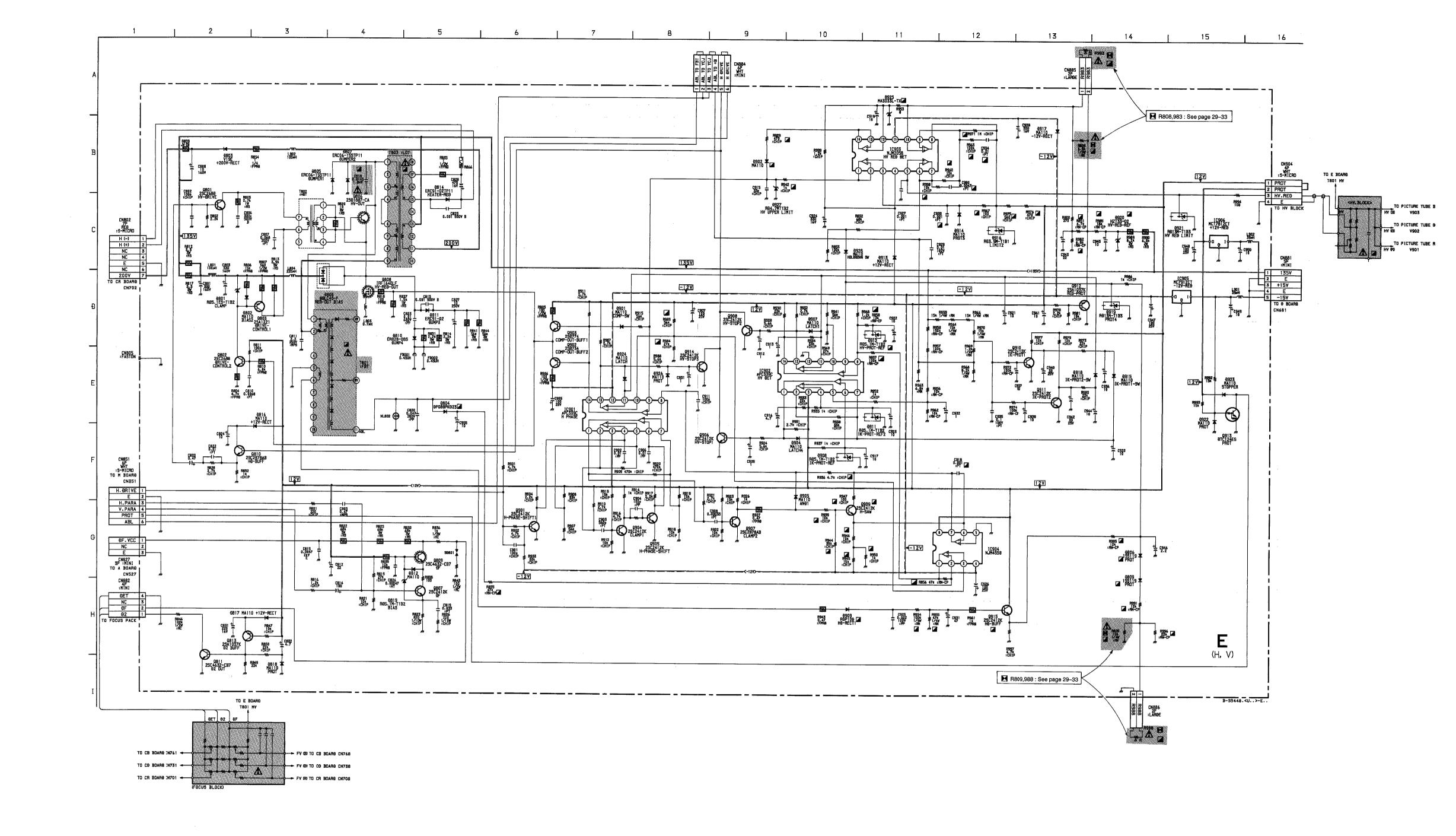


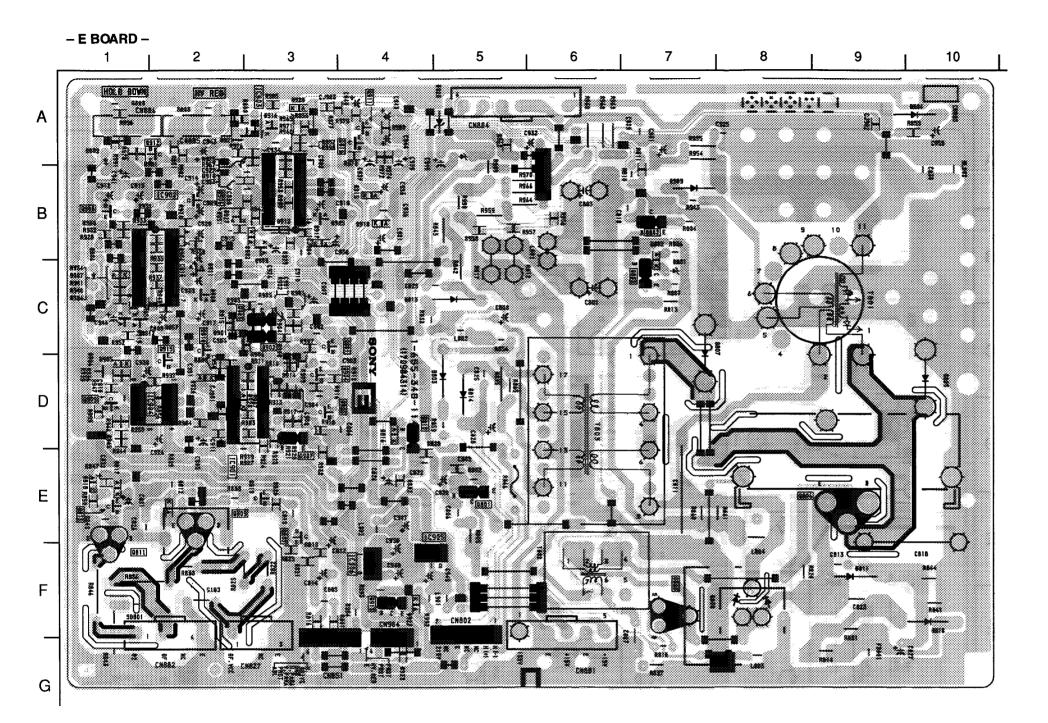
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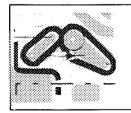
les seeing.



- 62 -



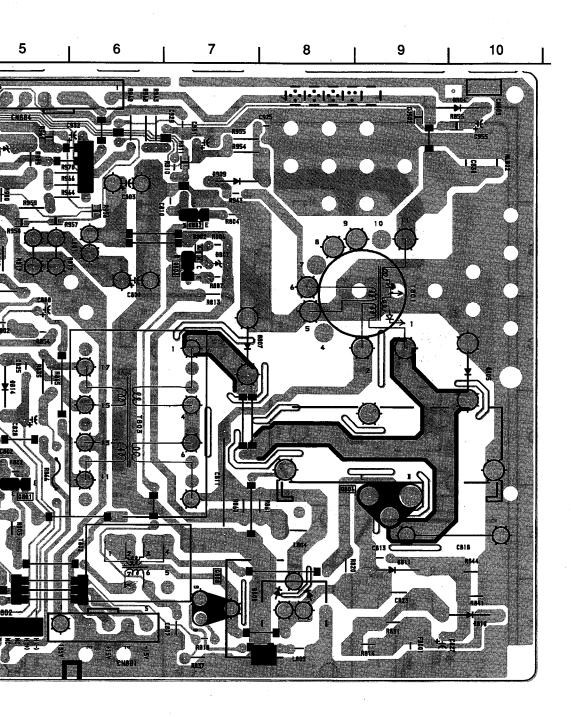




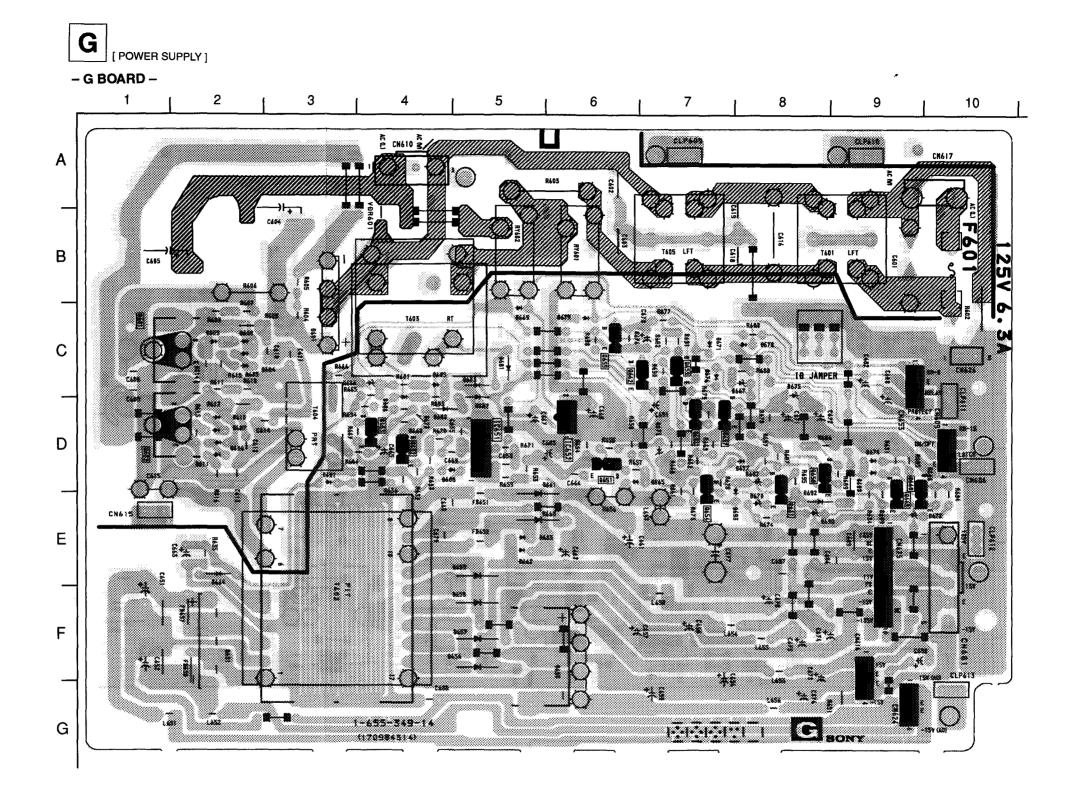
NOTE:

The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

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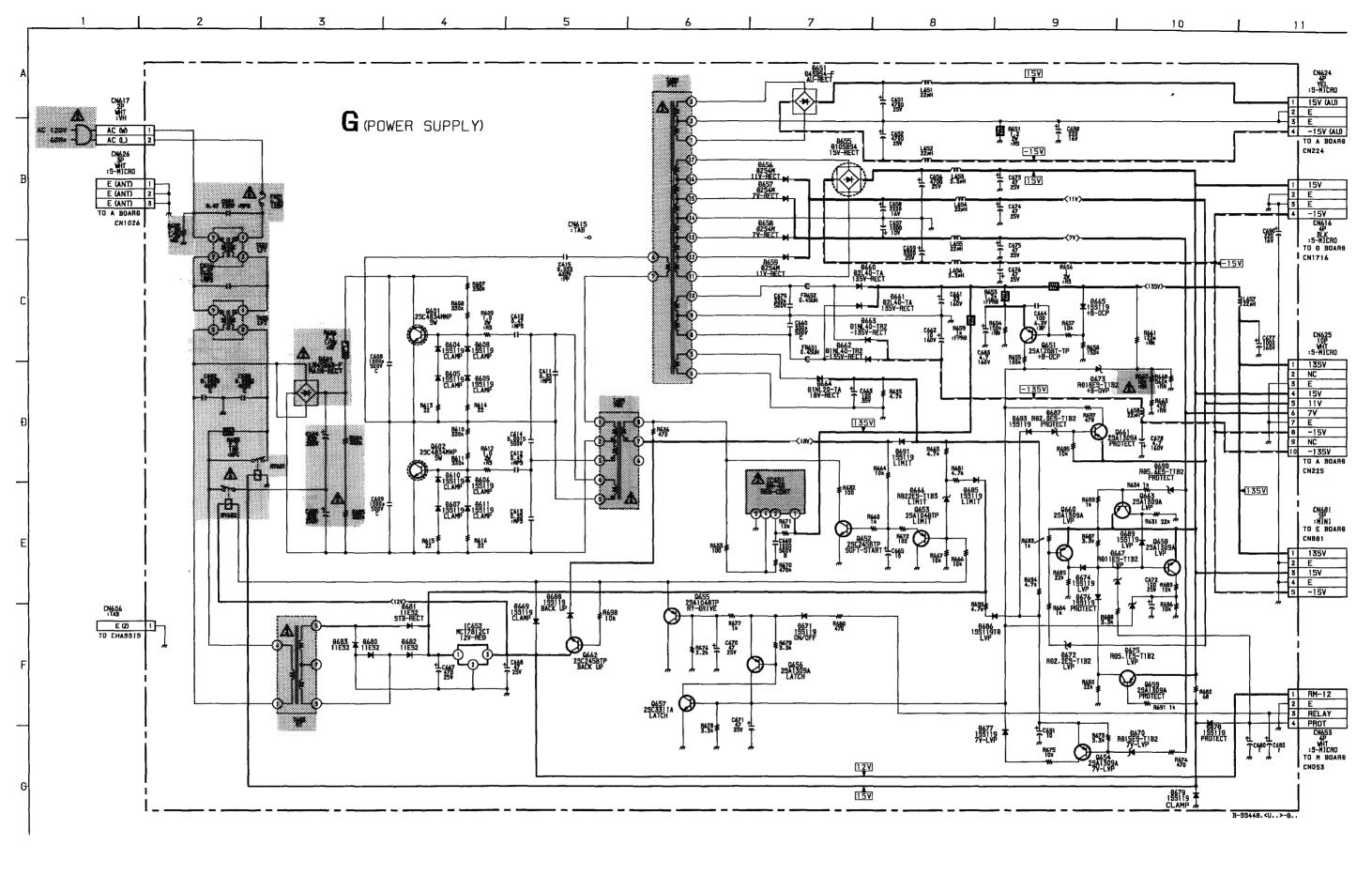


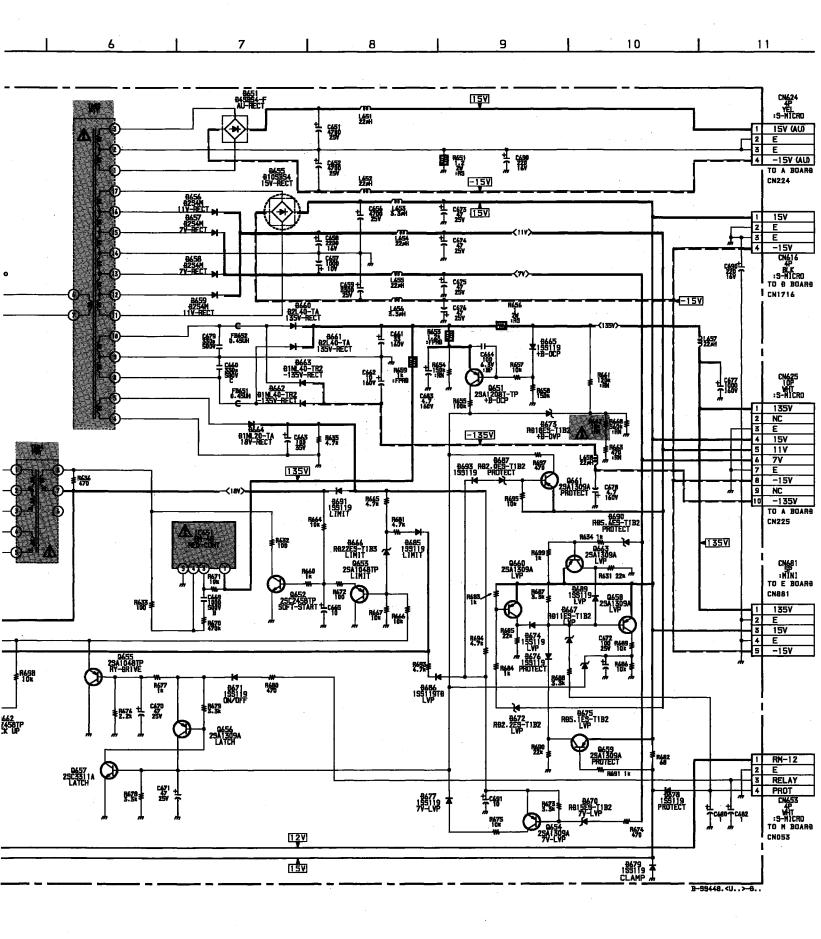
ge of over ic shock in



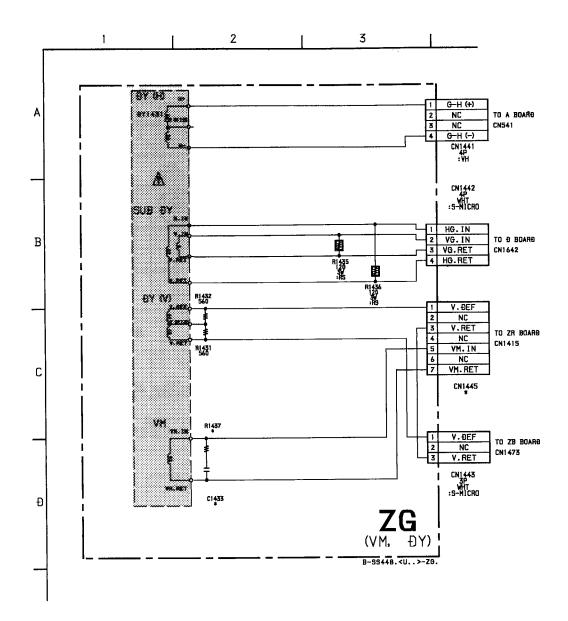
- 71 -

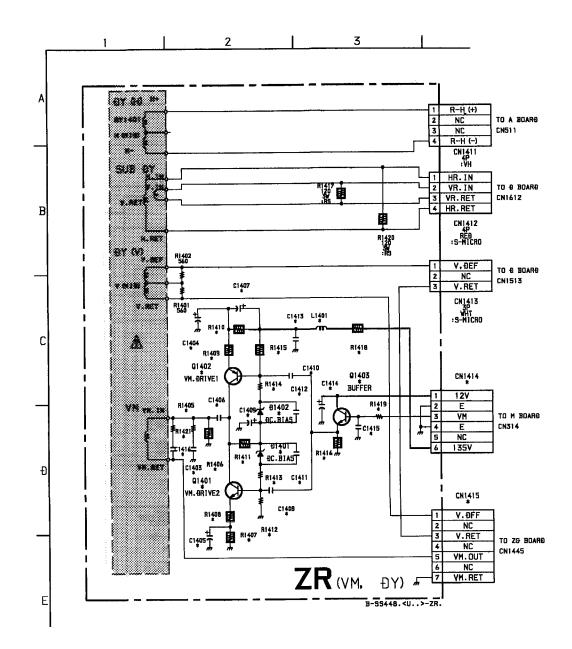
E CN610 8

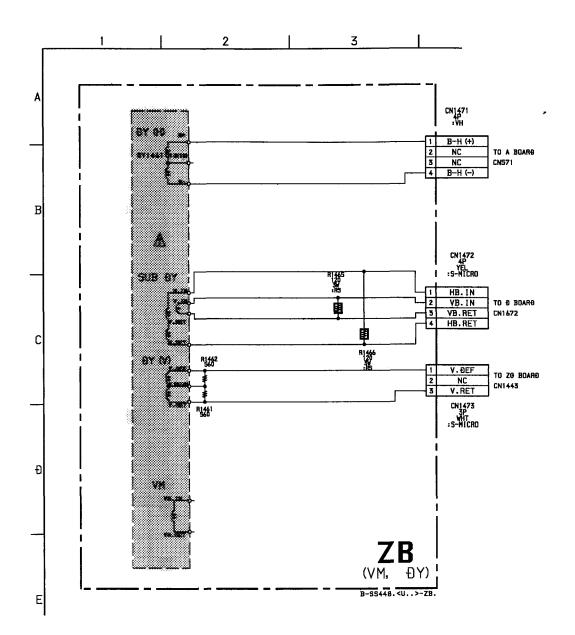




Schematic diagrams

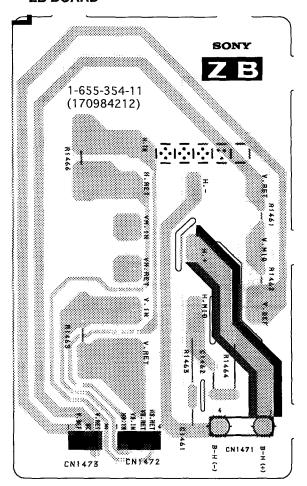




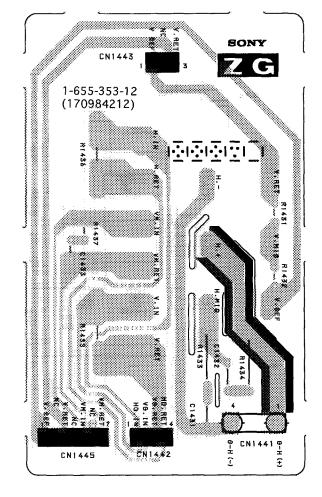




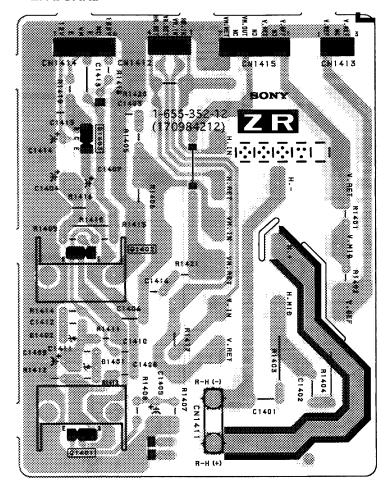
- ZB BOARD -

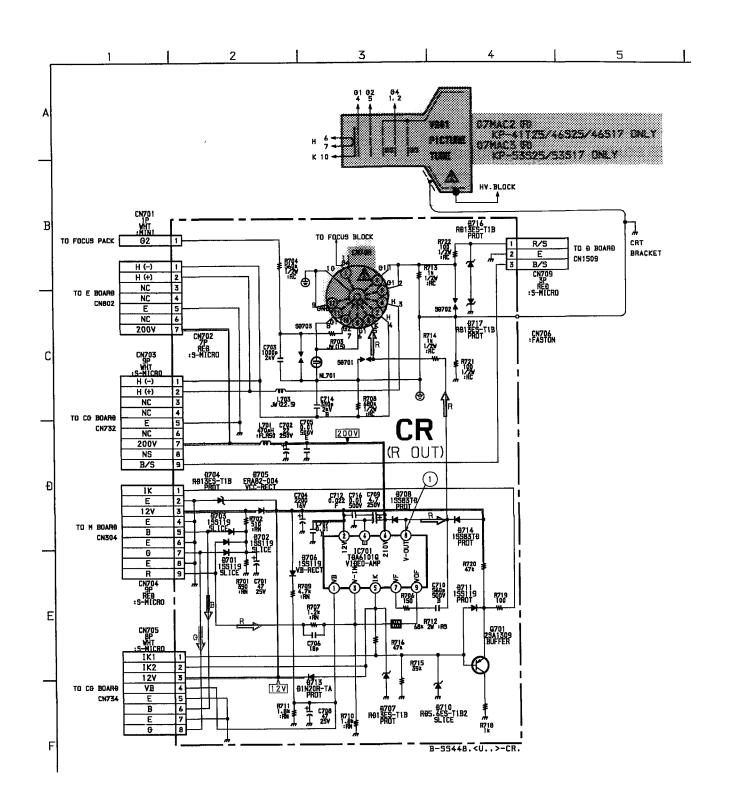


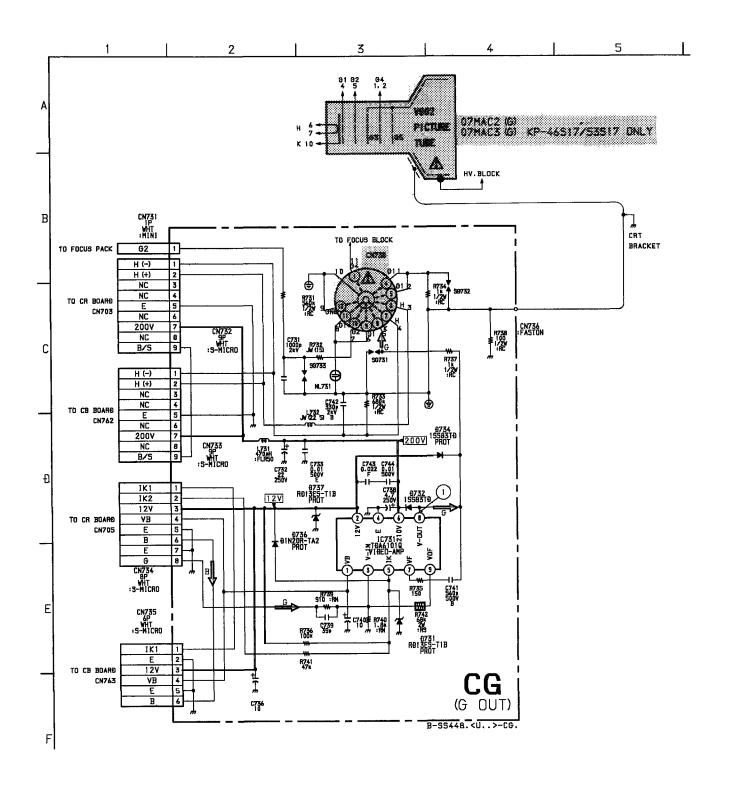
- ZG BOARD -

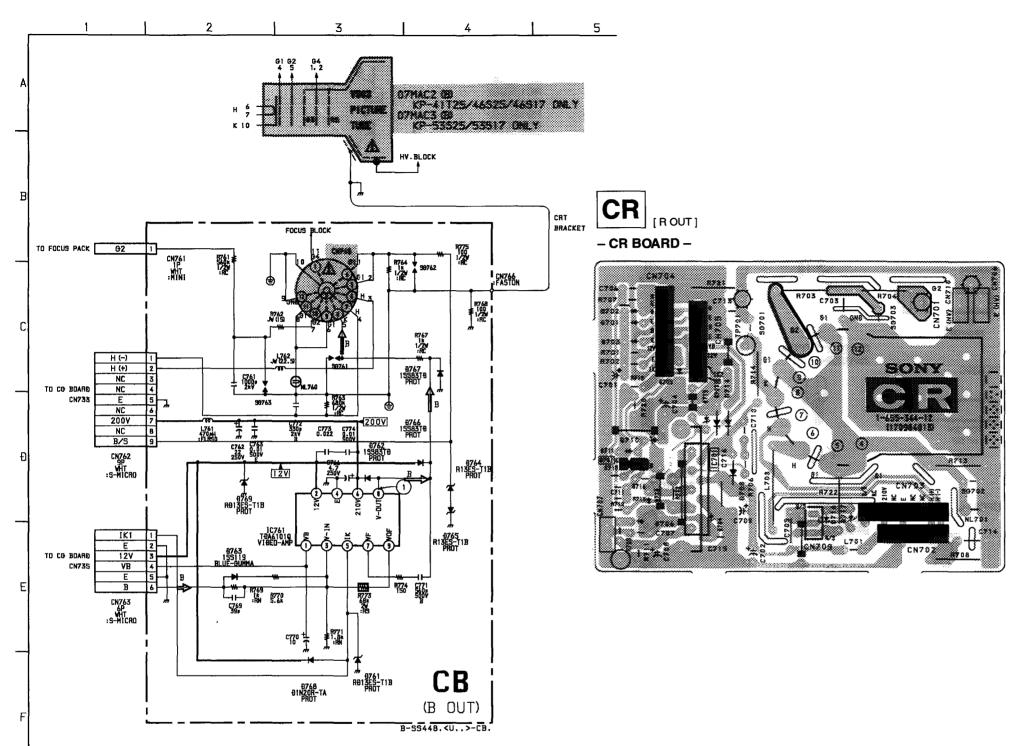


- ZR BOARD -



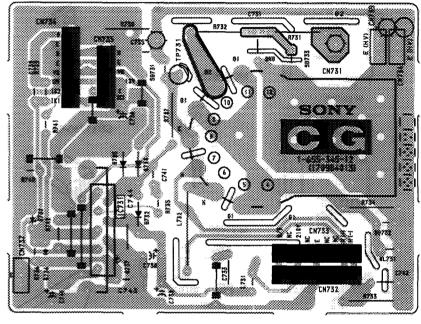






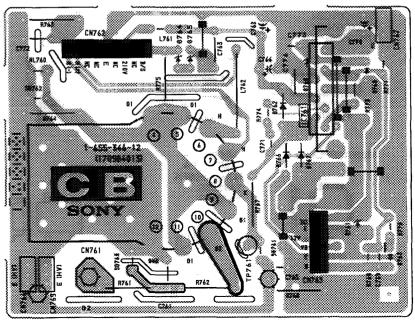
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- CG BOARD -



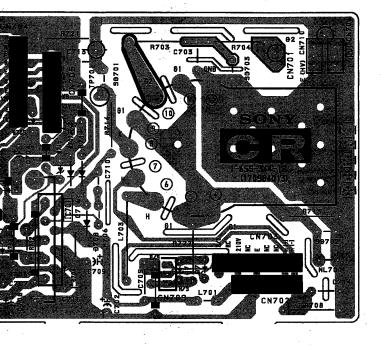
CB

- CB BOARD -

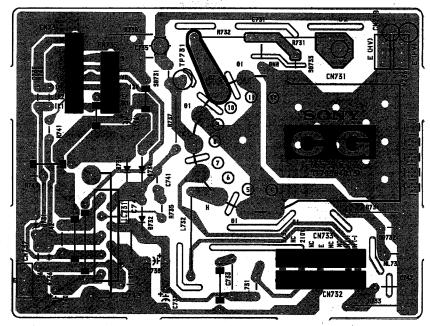


[ROUT]

DARD -

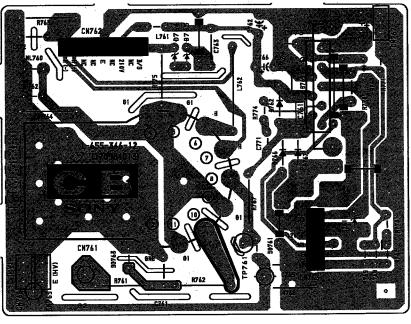






CB [BOUT]

– CB BOARD –



4-3. SEMICONDUCTORS



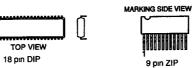




16 pin DIP

PA0053B Z8622812PSC

PM0002B



DTC323TS 2SA1175-HFE 2SC2785-HFE

LETTER SIDE

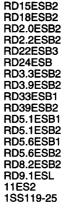




ERC91-02TP11 RD10ESB2 RD11ESB2 RD13ESB2 RD15ESB2 RD18ESB2

D1N20R

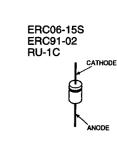
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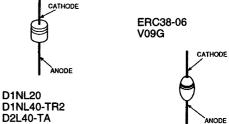
D1NL20

EL1Z **ERD28-08S** GP08D RGP02-20EL-6394

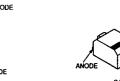
1SS83



EGP-20G







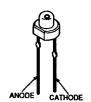








SLR-325VCT31

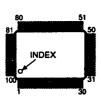




CXA1477AS CXA1855S

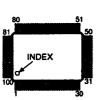
24 pin SIP

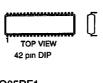




MCT7812CT

MB86144BPF-G-BND





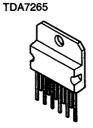
PQ05RF1 PQ09RA1

SBX1780-51

STK392-010

STV9379

MARKING SIDE VIEW



TDA8424

UPC339C

TOP VIEW 14 pm DIP

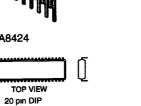
UPC574J

ANÓDE

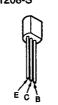
UPC78N05H

CATHODE

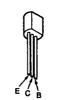
TDA6101Q



2SA1013-R-TPE6

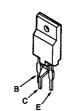


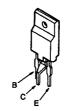
2SA1208-S



2SC4632LS-CB7 2SD1877-CA

2SC2878-AB





2SC4834M







D10SBS4-F D4SBS4-F LN4SB60-F



ANODE

D8LC40-F

D2S4MF

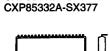




DAP202K



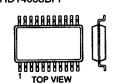
48 pin DIP



CXP85112B-SX377

TOP VIEW 64 pin DIP

HD14053BFP



16 pin SOP LM7912CT



M5218AP ST24C01CB1 ST24C04CB1 UPC358C



MB3512PFQ



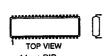
MN1382S

3 pin SIP

MN1280-S

MARKING SIDE VIEW





NJM7805FA NJM7812FA NJM78M09FA TA7805S



NJM2058D



TA7812S



TC7SU04F







DTC124ES 2SC2458-YGR





- 85 -

ANODE

CATHODE

2SB649A-C 2SC2688-LK

LETTER SIDE





2SA1162-G 2SC1623-L5L6 2SD601A-Q



2SA1221-L 2SB733-34 2SD774-34



2SA1492M-OPY

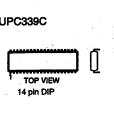


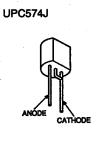


DAN202K



TOP VIEW 20 pin DIP



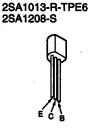


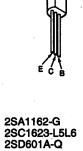
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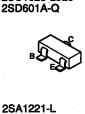




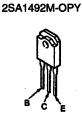
IRFI640LF

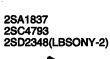














2SB649A-C 2SC2688-LK LETTER SIDE





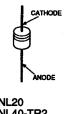






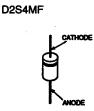






D1NL20 D1NL40-TR2 D2L40-TA EL1Z **ERD28-08S** GP08D RGP02-20EL-6394 **1SS83**





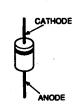


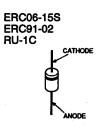


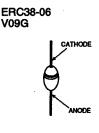




EGP-20G







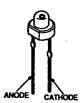


HVU359TRF









SLR-325VCT31



SECTION 5 EXPLODED VIEWS

NOTE:

 Items with no part number and no description are not stocked because they are seldom required for routine service

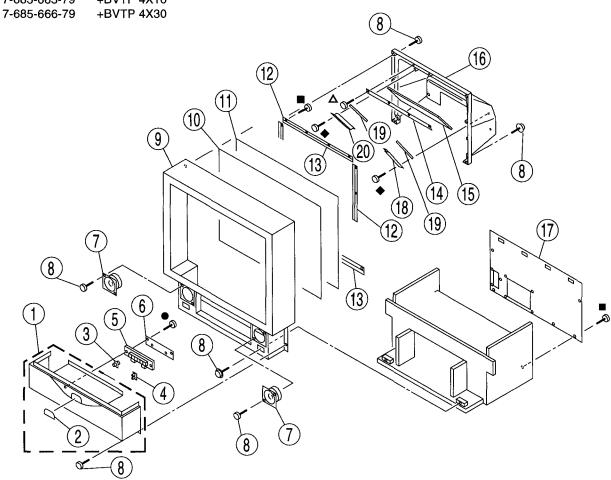
5-1. SCREEN AND CONTROL BLOCK

● 7-685-648-79 +BVTP 3X12
△ 7-685-661-79 +BVTP 4X12
■ 7-685-663-79 +BVTP 4X16

- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " * " are not stocked since they are seldom required for routine service Some delay should be anticipated when ordering these items

The componants identified by shading and mark A are critical for safety Replace only with part number specified

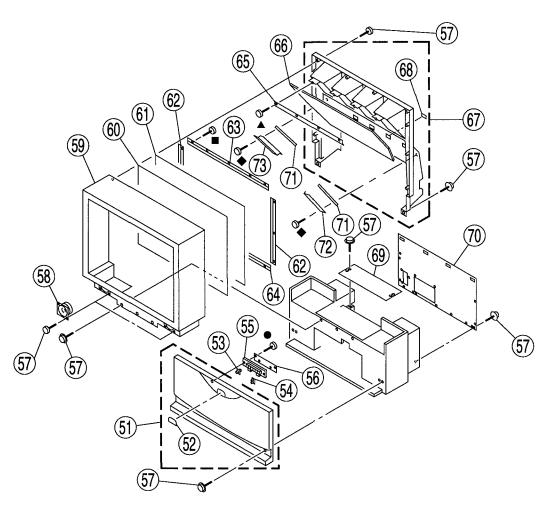
Les composants identifies par une trame et une marque A sont critiques pour la securite Ne les remplacer que par une piece portant le numero specifie



REF NO	PART NO	DESCRIPTION	REMARK	REF NO	PART NO	DESCRIPTION	REMARK
1 2 3 4	X-4032-545-1 4-048-000-01 4-047-999-01 4-047-998-01 4-048-001-01	PANEL ASSY, CONTROL DOOR, CONTROL FILTER, REMOTE GUIDE, LIGHT, LED BUTTON. MULTI			4-036-091-31 4-037-351-01 4-037-351-01 4-047-861-01 X-4032-607-1	HOLDER (L), SCREEN HOLDER, MIRROR HOLDER, MIRROR MIRROR (41), REFLECTION COVER. MIRROR	
6 7 8 9	* A-1372-099-A 1-504-785-11 4-041-164-11	HA BOARD, COMPLETE SPEAKER (10CM) SCREW (4X20), TAPPING BEZNET ASSY PLATE (L), DIFFUSION		17 * 18 *	* 4-049-098-01 * 4-049-098-01	PLATE (41), REAR HOLDER (RIGHT), SIDE (KP-46S17/46S25/ CUSHION (KP-46S17/46S25/	
11 12	4-047-943-11 4-036-092-01	PLATE (F), DIFFUSION HOLDER (S), SCREEN		20 *	* 4-049-097-01	HOLDER (LEFT), SIDE (KP-46S17/46S25/	53\$17/53\$25)

5-2. MIRROR COVER AND POWER BLOCK

↑ 7-685-648-79
 ↑ 7-685-661-79
 ↑ 7-685-663-79
 ↑ 7-685-666-79
 ↑ BVTP 4X12
 ↑ +BVTP 4X16
 ↑ +BVTP 4X30



REF NO	. PART NO	DESCRIPTION	REMARK	REF NO	PART NO	DESCRIPTION	REMARK
51	X-4032-614-2	GRILLE ASSY, SPEAKER	52		* 4-048-159-01	HOLDER (L), SCREEN (KP-46S	
52	4-048-000-01	DOOR, CONTROL			* 4-048-159-11	HOLDER (L), SCREEN (KP-53S	
53	4-047-999-01	FILTER, REMOTE			* 4-048-159-21	HOLDER (L), SCREEN (KP-46S	
54	4-047-998-01	GUIDE, LIGHT, LED		;	* 4-048-159-31	HOLDER (L), SCREEN (KP-53S	17/53\$25)
55	4-048-001-01	BUTTON, MULTI					
				65	4-036-092-01	HOLDER, MIRROR	
56	* A-1372-099-A	HA BOARD, COMPLETE		66	4-048-181-01	MIRROR (46), REFLECTION (K	
57	4-041-164-11	SCREW (4X20), TAPPING			4-048-181-01	MIRROR (53), REFLECTION (K	
58	1-504-785-11	SPEAKER (10CM)		67	* X-4032-619-3		
59	X-4032-617-2	BEZNET ASSY (46S) (KP-46S17/46S	S25)	:	* X-4032-620-3	COVER ASSY, MIRROR (KP-53	3S17/53S25)
	X-4032-618-1	BEZNET ASSY (53S) (KP-53S17/53S	S25)				
				69	* 4-048-160-01	PLATE, SHIELD (KP-46S17/46S	325)
60	4-036-466-11	PLATE (L), DIFFUSION (KP-53S17/	/53S25)		* 4-048-161-01	PLATE, SHIELD (KP-53S17/53S	325)
	4-037-360-11	PLATE (L), DIFFUSION (KP-46S17/	(46S25)	70	* 4-048-168-01	PLATE, REAR (KP-53S17/53S25	5)
61	4-036-469-01	PLATE (F), DIFFUSION (KP-53S17/	(53S25)		* 4-048-169-01	PLATE, REAR (KP-46S17/46S25	5)
	4-048-205-11	PLATE (F), DIFFUSION (KP-46S17/	46S25)	71	* 4-049-098-01	CUSHION `	•
62	* 4-048-152-01	HOLDER (S), SCREEN (KP-46S17/4	6S25)				
			ŕ	72	* 4-049-096-01	HOLDER (RIGHT), SIDE	
	* 4-048-152-11	HOLDER (S), SCREEN (KP-53S17/5	3S25)	73	* 4-049-097-01	HOLDER (LEFT), SIDE	
		,,,	•			, ,,,	

The componants identified by shading and mark \triangle are critical for safety Replace only with part number specified

Les composants identifies par une trame et une marque \(\Lambda \) sont critiques pour la securite Ne les remplacer que par une piece portant le numero specifie

5-3. DC AND E BLOCK

7-685-648-79 +BVTP 3X12
 7-685-663-79 +BVTP 4X16

REF N	O PART NO	DESCRIPTION	REMARK	REF NO	PART NO	DESCRIPTION	REMARK
101 102 103	* A-1316-212-A	RESISTOR ASSY (HIGH-VOLTAC G BOARD, COMPLETE CORD, POWER (WITH NOISE FIL				U BOARD, COMPLETE (KP-46 U BOARD, COMPLETE (KP-41	S17/53S17) F25/46S25/53S25)
103	M 1*/U7*03/*11	CORD, TOWER WITH NOISET IL	(7.0A/125V)	118	* A-1195-062-A	P BOARD, COMPLETE	, , , , , , , , , , , , , , , , , , , ,
104	* 3-659-682-11	HOLDER, PC BOARD		119	4-047-951-01	TERMINAL BOARD (A)	
105	* 4-382-848-02	HOLDER, PCB		120	4-041-165-01	SCREW (3X12), TAPPING, +BV	√
106	* 3-703-141-11	HOLDER, PCB		121	4-047-952-11	TERMINAL BOARD (B)	
107	* A-1341-885-A	E BOARD, COMPLETE		122	1-561-306-00	JACK, PIN (F) (KP-46S17/53S1	1)
108	A 1-453-189-11	TRANSFORMER ASSY, FLYBAC	K	123	1-556-945-21	CABLE, P-P	
		(1	NX2631//A4S)	124	* 4-047-950-01	BRACKET, D PC BOARD	
109	A 1-900-211-34	LEAD ASSY, HV		125	* A-1346-296-A	D BOARD, COMPLETE	
110	* 3-687-542-41	SPACER, PC BOARD SPACE					
110	5 007 5 12 11	5111021t, 1 0 2 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		126	* 4-047-949-01	BRACKET, MAIN PC BOARD	
111	4-041-164-11	SCREW (4X20), TAPPING		127	A 8-598-047-11	TUNER, ET (BTF-LA401)	
112		BLOCK ASSY, HIGH-VOLTAGE					T25/46S25/53S25)
113		CAP (Z), RUBBER		128	1-557-056-41	CABLE, P-P	
114		A BOARD, COMPLETE (KP-46S1)	7/53\$17\	129		TR2 BOARD, COMPLETE	
114		A BOARD, COMPLETE (KP-46S2S		130		LAVEL (B), TERMINAL	
	A-1297-013-A	A BOARD, COMPLETE (RF-4032.	0133323) ,	1 130	4 047 237 01		S25/53S17/53S25)
	* A 1207 914 A	A DOADD COMDIETE (VD 41T)	5)			(111 10517710	525/5561//55625)
114		A BOARD, COMPLETE (KP-41T2:))	131	4-049-665-01	LAVEL, IN/OUT	
115		TUNER (BTF-WA402)	5)	132	1-417-178-11	SELECTOR, ANTENA (AS-2)	
116		M BOARD, COMPLETE (KP-41T2		132	1-41/0-11		S25/53S17/53S25)
		M BOARD, COMPLETE (KP-46S1		1		(Kr-40317/40	3231333111333231
	* A-1306-530-A	M BOARD, COMPLETE (KP-46S2	3/33823)	1			

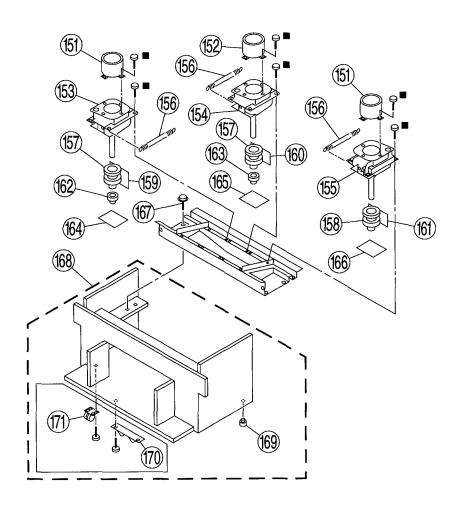
ì

The componants identified by shading and mark A are critical for safety
Replace only with part number specified

Les composants identifies par une trame et une marque Å sont critiques pour la securite Ne les remplacer que par une piece portant le numero specifie.

5-4. SHIELD AND MIRROR HOLDER BLOCK

■ 7-685-663-79 +BVTP 4X16



REF NO	PART NO	DESCRIPTION	REMARK	REF NO	PART NO	DESCRIPTION	REMARK
151 152	4-034-057-01 4-034-057-11	LENS (LINNIT) LENS (LINNIT)		161 '	* A-1390-491-A	ZB BOARD, COMPLETE	
	A 8-736-077-15	PITURE TUBE 07MAC2 (F	() P-41T25/46S17/46S25)		. 1-452-790-21 . 1-452-790-11		
	∄ 8-736-077-25 ∄ 8-736-075-05	PICTURE TUBE 07MAC30 PICTURE TUBE 07MAC20				CR BOARD, COMPLETE CG BOARD, COMPLETE	
	∧ 8-736-076-15	PICTURE TUBE 07MAC2			* A-1331-500-A	CB BOARD, COMPLETE	,
			P-41T25/46S17/46S25)	167 168	4-052-894-01 * X-4032-547-1	SCREW (4X20), TAPPING CABINET ASSY, BOTTO	
156	4-048-142-01 A 8-451-463-11	SPRING, TENSION DEPLECTION YOKE (Y8)			* X-4032-615-1	CABINET ASSY, BOTTO	
	∆ 8-451-463-21	DEFLECTION YOKE (Y82		168	* X-4032-616-1	CABINET ASSY, BOTTO	
159		ZR BOARD, COMPLETE (ZR BOARD, COMPLETE	KP-41T25)	169	4-047-987-01	FOOT (KP-41T25)	171,170
160			7/46S25/53S17/53S25)	170	4-048-175-01	FOOT, PLASTIC	317/46\$25/53\$17/53\$25)
160		ZG BOARD, COMPLETE	7/46S25/53S17/53S25)	171	4-040-755-01	CASTER (DIA 30)	\$17/46\$25/53\$17/53\$25)

When indicating parts by reference number,

please include the board name.

SECTION 6 ELECTRICAL PARTS LIST



NOTE:

Les composants identifies par une trame et une marque flashsont critiques pour la securite Ne les remplacer que par une piece portant le numero specifie

The componants identified by shading and mark Λ are critical for safety Replace only with part number specified

- The components identified by
 M in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

• CAPACITORS PF : μμ F

 There are some cases the reference number on one board overlaps on the other board. Therefore, when ordering parts by the reference number, please include the board name.

RESISTORS

- · All resistors are in ohms
- F: nonflammable

		• F : no	onflammab	le						
REF NO	PART NO	DESCRIPTION			REMARK	REF NO	PART NO.	DESCRIPTION		REMARK
	* A-1195-062-A	P BOARD, CON				C3252	1-163-103-00	CERAMIC CHIP 27PF	5%	50V
		<capacitor></capacitor>		•		C3253 C3254 C3255 C3256 C3257	1-163-141-00 1-163-101-00 1-164-232-11	CERAMIC CHIP 22PF CERAMIC CHIP 0.001MF CERAMIC CHIP 22PF CERAMIC CHIP 0 01MF CERAMIC CHIP 100PF	5% 5% 5% 10% 5%	50V 50V 50V 50V 50V
C3201 C3203 C3204 C3205 C3206	1-126-967-11 1-164-004-11 1-126-964-11 1-126-964-11 1-126-964-11	CERAMIC CHIP ELECT ELECT	0 1MF 10MF	20% 10% 20% 20% 20%	16V 25V 50V 50V 50V	C3258 C3259 C3260 C3261 C3263	1-163-111-00 1-163-119-00 1-163-141-00	CERAMIC CHIP 68PF CERAMIC CHIP 56PF CERAMIC CHIP 120PF CERAMIC CHIP 0 001MF CERAMIC CHIP 0 001MF	5% 5% 5% 5% 5%	50V 50V 50V 50V 50V
C3207 C3208 C3209 C3210 C3212	1-163-117-00 1-126-962-11 1-126-967-11 1-126-962-11	ELECT ELECT	100PF 3 3MF 47MF 3 3MF	5% 5% 20% 20% 20%	50V 50V 50V 16V 50V	C3264 C3265 C3266 C3267 C3268	1-163-141-00 1-163-141-00 1-163-141-00	CERAMIC CHIP 0.1MF CERAMIC CHIP 0.001MF CERAMIC CHIP 0.001MF CERAMIC CHIP 0.001MF CERAMIC CHIP 0.001MF	5% 5% 5% 5%	50V 50V 50V 50V 50V
C3213 C3214 C3215 C3216 C3217	1-164-346-11 1-164-346-11 1-164-005-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	1MF 1MF 0 47MF		16V 16V 16V 25V 16V	C3269 C3270 C3271 C3272 C3273	1-165-319-11 1-165-319-11 1-165-319-11	CERAMIC CHIP 0 001MF CERAMIC CHIP 0 1MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0 1MF CERAMIC CHIP 47PF	5% 5%	50V 50V 50V 50V 50V
C3218 C3219 C3220 C3221 C3222	1-126-935-11 1-164-346-11 1-164-346-11	CERAMIC CHIP ELECT CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	470MF 1MF 1MF	20%	16V 16V 16V 16V 25V	C3274 C3275 C3276 C3277 C3278	1-163-101-00 1-163-111-00 1-163-101-00	CERAMIC CHIP 22PF CERAMIC CHIP 22PF CERAMIC CHIP 56PF CERAMIC CHIP 22PF CERAMIC CHIP 22PF	5% 5% 5% 5%	50V 50V 50V 50V 50V
C3223 C3224 C3225 C3226 C3227	1-164-222-11 1-164-222-11 1-164-005-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0 22MF 0 22MF 0 47MF		25V 25V 25V 25V 16V	C3279 C3280 C3282	1-126-964-11	CERAMIC CHIP 0 001MF ELECT 10MF CERAMIC CHIP 1MF	5% 20%	50V 50V 16V
C3228 C3229 C3230 C3231 C3232	1-163-093-00 1-163-141-00 1-163-125-00	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	10PF 0.001MF 220PF	5% 5% 5% 5% 5%	50V 50V 50V 50V 50V	CN150	1-573-297-21	<connector> CONNECTOR, BOARD TO <diode></diode></connector>	BOAR	RD 18P
C3233 C3234 C3235 C3236 C3237	1-164-232-11 1-164-232-11 1-164-232-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	001MF 001MF 001MF	10% 10% 10% 10% 10%	50V 50V 50V 50V 50V	D3202 D3203 D3208 D3209	8-719-404-46 8-719-110-17	DIODE HVU359TRF DIODE MA110 DIODE RD10ESB2 DIODE RD10ESB2		
C3238 C3239 C3240 C3241 C3242	1-163-141-00 1-163-101-00 1-163-103-00	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0 001MF 22PF 27PF	5% 5% 5% 5% 10%	50V 50V 50V 50V 50V	IC3200 IC3201 IC3202	8-759-093-29	<ic> IC MSM51C262-ZS IC MB86144BPF-G-BND IC MB40176PF-G-BND-EF</ic>		
C3243 C3244 C3245 C3246 C3247	1-163-113-00 1-164-232-11 1-164-232-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	68PF 001MF 001MF	5% 5% 10% 10%	50V 50V 50V 50V 50V	IC3203 IC3204 IC3205	8-759-093-28 8-759-093-25	IC MB40176PF-G-BND-EF IC MB3512PFQ IC TC7SU04F		
C3248 C3249 C3250 C3251	1-163-117-00 1-163-113-00	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	100PF 68PF	5% 5% 5% 10%	50V 50V 50V 50V	L3201 L3202		<coil> INDUCTOR 10UH INDUCTOR 180UH</coil>		





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REF NO.	PART NO	DESCRIPTION	R	REMARK	REF NO	PART NO.	DESCRIPTION		F	REMARK
L3203 L3204 L3205	1-410-476-11	INDUCTOR 180UH INDUCTOR 33UH INDUCTOR 10UH			R3250 R3251 R3252	1-216-049-91	METAL GLAZE METAL GLAZE METAL GLAZE	1K	5% 5% 5%	1/10W 1/10W 1/10W
L3206 L3207 L3208 L3209	1-410-387-11 1-410-387-11	INDUCTOR 33UH INDUCTOR 33UH INDUCTOR 33UH INDUCTOR 33UH			R3253 R3254 R3255 R3256 R3259	1-216-043-91 1-216-041-00 1-216-043-91	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	560 470 560	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W
		<transistor></transistor>			R3260 R3263		METAL GLAZE METAL GLAZE		5% 5%	1/10W 1/10W
Q3201 Q3202 Q3203 Q3204	8-729-422-27 8-729-216-22	TRANSISTOR 2SA1162-G TRANSISTOR 2SD601A-Q TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G			R3264 R3265 R3266	1-216-025-91 1-216-049-91	METAL GLAZE METAL GLAZE METAL GLAZE	100 1 K	5% 5% 5%	1/10W 1/10W 1/10W
Q3206		TRANSISTOR 2SD601A-Q			R3267 R3268		METAL GLAZE METAL GLAZE		5% 5%	1/10W 1/10W
Q3207 Q3208 Q3209 Q3210	8-729-422-27 8-729-216-22	TRANSISTOR 2SA1162-G TRANSISTOR 2SD601A-Q TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G			R3269 R3270 R3271	1-216-057-00 1-216-657-11 1-216-655-11	METAL GLAZE METAL CHIP METAL CHIP	2 2K 1 8K 1 5K	5% 0 50% 0.50%	1/10W 1/10W 1/10W
		PEGGEOR			R3273 R3274	1-216-049-91	METAL GLAZE	1K	5% 5%	1/10W 1/10W
R3201 R3202	1-216-073-00	<resistor> METAL GLAZE 100K METAL GLAZE 10K</resistor>	5% 5%	1/10W 1/10W	R3275 R3276 R3277	1-216-049-91	METAL GLAZE METAL GLAZE METAL GLAZE	1K	5% 5% 5%	1/10W 1/10W 1/10W
R3203 R3204	1-216-025-91	METAL GLAZE 100 METAL GLAZE 100	5% 5%	1/10W 1/10W 1/10W			<crystal></crystal>			
R3205 R3207		METAL GLAZE 1M CONDUCTOR, CHIP	5%	1/10W	X3201 X3202		VIBRATOR, CRYVIBRATOR, CRY			
R3208 R3209 R3210 R3211	1-216-097-91 1-216-079-00 1-216-089-91	METAL GLAZE 100K METAL GLAZE 18K METAL GLAZE 47K METAL GLAZE 10K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W			******		*****	****
R3212		METAL GLAZE 10K	5%	1/10W		* A-1297-605-A	A BOARD, CO		KP-46S1	7/53\$17)
R3213 R3214 R3215 R3216	1-216-121-91 1-216-057-00	METAL GLAZE 12K METAL GLAZE 1M METAL GLAZE 2 2K METAL GLAZE 2 2K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W		* A-1297-813-A	************ A BOARD, CO	MPLETE (1	KP-46S2	5/53\$25)
R3217 R3218 R3219	1-216-049-91 1-216-049-91	METAL GLAZE 2.2K METAL GLAZE 1K METAL GLAZE 1K	5% 5% 5%	1/10W 1/10W 1/10W			A BOARD, CO	MPLETE () *******	KP-41T2	5)
R3220 R3221		METAL GLAZE 1K METAL CHIP 1 5K	5% 0 50%	1/10W 1/10W		4-382-854-11	SPACER, MICA SCREW (M3X10 RUBBER, SILIC			•
R3222 R3223		METAL CHIP 1.5K METAL GLAZE 100	0 50% 5%	1/10W 1/10W		, 322 003 17	ROBBER, BIBIO			S25/53S25)
R3224 R3225 R3226	1-216-025-91	METAL GLAZE 1K METAL GLAZE 100 METAL GLAZE 33K	5% 5% 5%	1/10W 1/10W 1/10W	C201	1-104-665-11	<capacitor></capacitor>	100MF	20%	25V
R3227 R3228 R3229 R3230 R3231	1-216-045-00 1-216-073-00 1-216-073-00	METAL CHIP 680 METAL GLAZE 680 METAL GLAZE 10K METAL GLAZE 10K METAL GLAZE 10	0 50% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	C202 C203 C204 C205	1-102-125-00 1-130-489-00 1-124-902-00 1-104-665-11	CERAMIC FILM ELECT	0 0047MF 0 033MF 0 47MF 100MF		50V 50V 50V 25V
R3232 R3233 R3234 R3235	1-216-083-00 1-216-049-91 1-216-651-11	METAL GLAZE 27K METAL GLAZE 1K METAL CHIP 1K METAL GLAZE 560	5% 5% 0 50% 5%	1/10W 1/10W 1/10W 1/10W	C206 C207 C208 C209 C210	1-124-902-00 1-124-903-11 1-124-768-11 1-124-903-11 1-102-125-00	ELECT ELECT ELECT	0 47MF 1MF 4 7MF 1MF 0 0047MF	20% 20% 20% 20% 10%	50V 50V 50V 50V 50V
R3236		METAL GLAZE 47K	5%	1/10W	C211	1-130-489-00		0.033MF	5%	50V
R3237 R3238 R3239 R3241 R3242	1-216-049-91 1-216-043-91 1-216-057-00	METAL GLAZE 560 METAL GLAZE 1K METAL GLAZE 560 METAL GLAZE 2 2K METAL GLAZE 1K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	C212 C220 C221 C222	1-124-768-11 1-126-964-11 1-126-964-11 1-126-964-11	ELECT ELECT ELECT	4 7MF 10MF 10MF 10MF	20% 20% 20% 20%	50V 50V 50V 50V
R3243 R3244 R3245 R3246	1-216-025-91 1-216-025-91 1-216-025-91 1-216-069-00	METAL GLAZE 100 METAL GLAZE 100 METAL GLAZE 100 METAL GLAZE 68K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W	C223 C226 C232 C233 C234	1-126-964-11 1-104-665-11 1-104-664-11 1-104-664-11 1-104-664-11	ELECT ELECT ELECT	10MF 100MF 47MF 47MF 47MF	20% 20% 20% 20% 20%	50V 25V 25V 25V 25V
R3247 R3248 R3249	1-216-295-91	METAL GLAZE 39K CONDUCTOR, CHIP METAL GLAZE 22K	5% 5%	1/10W 1/10W	C236 C238 C239	1-124-902-00 1-104-665-11 1-126-943-11	ELECT	0 47MF 100MF 2200MF	20% 20% 20%	50V 25V 25V



REF. NO.	PART NO.	DESCRIPTION			REMARK	REF NO	PART NO	DESCRIPTION REMARK
C240 C241	1-126-943-11 1-137-399-11		2200MF 0.1MF	20% 5%	25V 50V	D232 D235 D262	8-719-991-33	DIODE 1SS133T-77 DIODE 1SS133T-77 DIODE 1SS133T-77
C242 C243	1-137-399-11 1-137-399-11		0 1MF 0.1MF	5% 5%	50V 50V	D263 D264		DIODE 1SS133T-77 DIODE 1SS133T-77
C244 C245	1-104-665-11 1-137-399-11	FILM	100MF 0.1MF	20% 5%	25V 50V	D501		DIODE 1SS133T-77
C262	1-104-664-11		47MF	20%	25V	D502 D504	8-719-991-33	DIODE MTZJ-T-77-3.9 DIODE 1SS133T-77
C263 C264	1-104-665-11 1-104-665-11	ELECT	100MF 100MF	20% 20%	25V 25V	D505 D506		DIODE 1SS133T-77 DIODE RU-1C
C265 C266 C267	1-104-665-11 1-104-665-11 1-104-664-11	ELECT	100MF 100MF 47MF	20% 20% 20%	25V 25V 25V	D507 D509		DIODE RGP02-20EL-6394 DIODE V09G
C501	1-124-902-00		0.47MF	20%	50V	D510 D511	8-719-900-95	DIODE V09G DIODE 1SS133T-77
C502 C503	1-104-664-11 1-137-370-11	ELECT	47MF 0 01MF	20% 5%	25V 50V	D1001		DIODE MTZJ-33A
C504 C505	1-102-973-00 1-137-372-11	CERAMIC	100PF 0.022MF	5% 5%	50V 50V	D1002	8-719-110-88	DIODE RD39ESB2 (KP-41T25/46S25/53S25)
C506 C507	1-123-024-21 1-107-368-11		33MF 0 047MF	10%	160V 200V			<1C>
C508 C509	1-107-638-11 1-107-368-11	ELECT	33MF 0 047MF	20% 10%	160V 200V	IC201 IC202	8-759-135-80 8-759-090-21	
C510	1-102-030-00		330PF	10%	500V	IC230 IC262	8-759-190-89 8-759-054-12	IC TDA7265
C511 C512	1-137-414-11 1-162-115-00		0 0047MF 330PF	10% 10%	100V 2KV	IC263	8-759-504-46	
C513 C514	1-136-598-11 1-136-613-11	FILM	3MF 0 0068MF		200V 2KV	IC264 IC1001		IC MCT7812CT IC HD14053BFP (KP-41T25/46S25/53S25)
C515	1-162-114-00		0 0047MF		2KV			COLL
C516 C517	1-107-719-11 1-126-971-11 1-126-971-11	ELECT	220MF 470MF 470MF	20% 20% 20%	50V 50V 50V	L501	1_411_180_11	<coil> COIL, CHOKE 15mH</coil>
C518 C519 C1001	1-126-971-11 1-124-903-11 1-126-963-11	ELECT	1MF 4 7MF	20% 20% 20%	50V 50V 50V	L503 L1001	1-406-832-11	COIL, CHORE ISINII COIL, HORIZONTAL LINEARITY(HLC) INDUCTOR 8.2UH
C1001	1-126-964-11		10MF	20%	50V	L1002 L1003	1-408-408-00	INDUCTOR 8.2UH INDUCTOR 100UH
C1003	1-126-965-11		22MF	20%	46S25/53S25) 50V	L1004		INDUCTOR 8 2UH (KP-41T25/46S25/53S25)
C1004	1-126-952-11		1000MF	20%	46S25/53S25) 16V	L1006 L1007		INDUCTOR 8 2UH (KP-41T25/46825/53825) INDUCTOR 8 2UH (KP-41T25/46825/53825)
C1005 C1006	1-104-665-11 1-101-004-00		100MF 0 01MF	20%	25V 50V			<transistor></transistor>
C1007 C1008	1-126-935-11 1-101-004-00		470MF 0 01MF	20%	16V 50V	Q220	8-729-927-14	TRANSISTOR DTC323TS
C1009	1-126-964-11		10 MF	20% 41T25/-	50V 46S25/53S25)	Q221 Q222	8-729-119-76	TRANSISTOR 2SA1175-HFE TRANSISTOR DTC323TS
C1010 C1011	1-126-964-11 1-102-121-00		10MF 0 0022MF	20%	50V 50V	Q223 Q230	8-729-119-76	TRANSISTOR 2SA1175-HFE TRANSISTOR 2SC2785-HFE
			,		46S25/53S25)	Q231		TRANSISTOR 2SC2785-HFE
C1012	1-102-121-00	CERAMIC	0 0022MF	10%	50V	Q232 Q234	8-729-119-78	TRANSISTOR 2SC2785-HFE TRANSISTOR 2SC2785-HFE
		<connector:< td=""><td>></td><td></td><td></td><td>Q235 Q236</td><td></td><td>TRANSISTOR 2SA1175-HFE TRANSISTOR 2SC2785-HFE</td></connector:<>	>			Q235 Q236		TRANSISTOR 2SA1175-HFE TRANSISTOR 2SC2785-HFE
CN221 CN222		CONNECTOR, I				Q501 Q502		TRANSISTOR 2SA1175-HFE TRANSISTOR 2SA1175-HFE
CN223 CN224	* 1-564-507-11	PLUG, CONNEC	CTOR 4P			Q503 Q504	8-729-119-78	TRANSISTOR 2SC2785-HFE TRANSISTOR 2SC2785-HFE
CN225	* 1-564-513-11	PLUG, CONNEC	CTOR 10P			Q505		TRANSISTOR 2SC2688-LK
CN527	* 1-573-963-11	PIN, CONNECT PIN, CONNECT	OR (PC BC			Q506 Q507	8-729-304-92	TRANSISTOR 2SA1013-O TRANSISTOR 2SB649A-C
	* 1-580-689-11	TAB (CONTACT PIN, CONNECT	ÓR (PC BC			Q508 Q509	8-729-010-98	TRANSISTOR 2SA1013-O TRANSISTOR 2SA1492M-OPY TRANSISTOR 2SD2348LBSONY
CN1026		PIN, CONNECT PLUG, CONNEC		JAKD)	4r	Q510 Q511		TRANSISTOR 2SA1175-HFE
J111020	1 55. 500-11		- 1 - 1 - 1 - 1			Q1001	8-729-119-76	TRANSISTOR 2SA1175-HFE (KP-41T25/46S25/53S25)
		<diode></diode>				Q1002		TRANSISTOR 2SA1175-HFE (KP-41T25/46S25/53S25)
D201 D202	8-719-110-17	DIODE RD10ES	B2			Q1003 Q1004		TRANSISTOR 2SA1175-HFE TRANSISTOR 2SC2785-HFE
D220 D221	8-719-991-33	DIODE 1SS1337 DIODE 1SS1337 DIODE 1SS1337	r-77					
D231	0-117-771-33	PIONE 1991331	1-11			1		



Les composants identifies par une trame et une marque A sont critiques pour la securite Ne les remplacer que par une piece portant le numero specifie

The componants identified by shading and mark $ilde{\Lambda}$ are critical for safety
Replace only with part number specified

REF. NO	PART NO	DESCRIPTION		•	REMARK	.	REF NO.	PART NO	DESCRIPTION			REMARK	<u>.</u>
		<resistor></resistor>					R522	1-249-417-11		1K	5%		F
R201	1-249-429-11	CARBON	10K	5%	1/4W	ĺ	R523 R524	1-249-426-11 1-215-925-11	CARBON * METAL OXIDE	5 6K 22K	5% 5%	1/4W 3W	F F
R203 R204	1-249-429-11 1-249-429-11		10K 10K	5% 5%	1/4W 1/4W		R525	1-216-373-11	METAL OXIDE	2.2	5%	2W	F
R205	1-249-429-11	CARBON	10K	5%	1/4W		R526	1-216-478-11	METAL OXIDE	390	5%	3W	F
R207	1-249-431-11	CARBON	15K	5%	1/4 W		R528	1-216-475-11	METAL OXIDE	120	5%	3W (KP-41T)	F (25)
R208	1-249-429-11 1-249-431-11		10K	5%	1/4W		R528	1-216-477-11	METAL OXIDE	270 (KP-46S174	5% 1682515	3W	F
R209 R210	1-247-815-91		15K 220	5% 5%	1/4W 1/4W		R529	1-215-912-11	METAL OXIDE		5%	3W	F
R211 R212	1-249-429-11 1-249-441-11		10K 100K	5% 5%	1/4W 1/4W							(KP-41T)	25)
							R529	1-216-477-11	METAL OXIDE		5%	3W	F
R213 R214	1-249-441-11 1-247-815-91		100K 220	5% 5%	1/4W 1/4W		R530	1-216-475-11	METAL OXIDE	(KP-46S174 120	+0323/3 5%	3W	F
R215 R216	1-249-441-11 1-249-441-11		100K 100K	5% 5%	1/4W 1/4W		R530	1-216-477-11	METAL OXIDE	270	5%	(KP-41T) 3W	25) F
R217	1-247-807-31		100	5%	1/4W				· ((KP-46S174	46S25/5	3817/538:	25)
R218	1-247-807-31	CARBON	100	5%	1/4W		R531	1-215-912-11	METAL OXIDE	150	5%	3W (KP-41T)	F 25)
R219 R220	1-249-417-11 1-249-429-11		1K 10K	5% 5%	1/4 W 1/4 W	İ	R531	1-216-477-11	METAL OXIDE	270 KP-46S174	5% 46825/5	3W 3817/538	F 25)
R221	1-249-437-11	CARBON	47K	5%	1/4W								23)
R222	1-249-417-11	CARBON	1K	5%	1/4W		R532 R533	1-215-442-00 1-215-443-00		7 5K 8 2K	1% 1%	1/4W 1/4W	
R223	1-249-429-11		10K	5%	1/4W	j	R534 R1001	1-215-437-00	METAL OXIDE	4 7K	1% 5%	1/4W 2W	F
R224 R230	1-249-429-11 1-249-430-11	CARBON	10K 12K	5% 5%	1/4W 1/4W		R1001		METAL OXIDE	22K	5%	2W	F
R231 R233	1-249-429-11 1-249-429-11		10 K 10 K	5% 5%	1/4W 1/4W					(KP-4	11T25/4	16S25/53S	25)
							R1003	1-249-411-11	CARBON	330	5%	1/4W	25)
R234 R235	1-249-441-11 1-249-414-11		100K 560	5% 5%	1/4W 1/4W		R1004	1-249-434-11	CARBON	27K	+1123/4 5%	6S25/53S; 1/4W	23)
R236 R237	1-249-432-11 1-249-414-11		18K 560	5% 5%	1/4W 1/4W		R1005	1-249-436-11	CARBON	39K (KP-4	41T25/4 5%	6S25/53S: 1/4W	25)
R238	1-249-431-11		15K	5%	1/4W					(KP-4	41T25/4	6825/538	25)
R239	1-249-430-11	CARBON	12K	5%	1/4W		R1006 R1007	1-249-434-11 1-249-425-11		27K 4 7K	5% 5%	1/4W 1/4W	
R241 R242	1-249-439-11 1-249-432-11		68K 18K	5% 5%	1/4W 1/4W		R1008	1-247-807-31	CARRON	100	5%	1/4W	
R243	1-247-863-91	CARBON	22K	5%	1/4W				((KP-46S174	46S25/5	3817/538	25)
R244	1-247-863-91	CARBON	22K	5%	1/4W		R1010 R1011	1-249-411-11 1-249-425-11		330 4 7K	5% 5%	1/4W 1/4W	
R246 R247	1-247-863-91 1-249-430-11		22K 12K	5% 5%	1/4W 1/4W		R1012	1-249-425-11	CARRON	(KP-4 4 7K	41T25/4 5%	16S25/53S 1/4W	25)
R249	1-247-807-31	CARBON	100	5%	1/4W					(KP-4	41T25/4	6S25/53S	25)
R250 R251	1-249-417-11 1-249-437-11		1K 47K	5% 5%	1/4W 1/4W		R1013	1-247-807-31	CARBON	100 (KP-4	5% 41T25/4	1/4W 16S25/53S	25)
R252	1-249-417-11		1K	5%	1/4W		R1014	1-249-436-11	CARRON	39 K	5%	1/4W	
R255	1-249-429-11	CARBON	10K	5%	1/4W		R1016	1-247-807-31	CARBON	100	5%	1/4W	
R257 R258	1-249-429-11 1-249-429-11		10 K 10 K	5% 5%	1/4W 1/4W		R1017 R1018	1-249-417-11 1-215-432-00		1K 3K	5% 1%	1/4W 1/4W	
R259		METAL OXIDE	4 7	5%	1 W	F	R1019	1-249-441-11	CARBON	100K	5%	1/4W	
R260		METAL OXIDE		5%	1W	F			TO LUCEOU	-n			
R501 R502	1-249-421-11 1-249-429-11		2 2K 10K	5% 5%	1/4W 1/4W				<transformi< td=""><td>ER></td><td></td><td></td><td></td></transformi<>	ER>			
R503	1-249-441-11 1-249-429-11	CARBON	100K 10K	5% 5%	1/4W 1/4W		T501	1-437-078-00	TRANSFORME	R, HORIZC	NTAL	DRIVE	
R504													
R505 R506	1-215-437-00 1-215-433-00		4 7K 3 3K	1% 1%	1/4W 1/4W				<tuner></tuner>				
R507 R508	1-249-407-11	CARBON	150	5%	1/4W		TU1001 /	1 8-598-047-11	TUNER (BTF-L		415067	(C03E)E30	O.E.
R508 R509	1-249-421-11 1-249-423-11		2 2K 3 3K	5% 5%	1/4W 1/4W		TU1002 /	∆ 8-598-254-00	TUNER (BTF-W		+1123/-	16825/538	23)
R510	1-249-417-11	CARBON	1K	5%	1/4W								
R511	1-247-895-91	CARBON	470K	5%	1/4W	г	***		******		****		r skr skr
R512 R513		METAL OXIDE METAL OXIDE		5% 5%	3W 2W	F F	*******	**************************************	<i>~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~</i>				4.4
R514	1-249-421-11	CARBON	2 2K	5%	1/4W	F							
R515		METAL OXIDE		5%	3W	F							
R516 R517	1-249-430-11 1-249-429-11		12K 10K	5% 5%	1/4W 1/4W	F							
R518 R519	1-249-427-11 1-249-417-11		6 8K 1K	5% 5%	1/4W 1/4W	F	i						
						г							
R520 R521	1-249-423-11 1-249-437-11		3.3K 47K	5% 5%	1/4W 1/4W	F							
						1	i						



REF NO	PART NO	DESCRIPTION		R	EMARK	REF. NO	PART NO	DESCRIPTION			REMARK
	* A-1306-497-A	M BOARD, CO	MPLETE (F	KP-41T2:	5)	C074	1-104-661-91	ELECT	330MF	20%	16V
		M BOARD, CO	MPLETE (F ******* MPLETE (F			C075 C302 C303 C304 C309	1-124-902-00 1-124-902-00 1-126-963-11	ELECT	0 47MF 0 47MF 4 7MF	20% 20% 20% 10%	50V 50V 50V 50V 50V
C001	1-126-935-11	************* <capacitor> FI FCT</capacitor>	******** 470 M F	20%	16V	C310 C311 C312 C313 C314	1-124-925-11 1-163-017-00 1-104-664-11	CERAMIC CHIP	2 2MF 0 0047MF 47MF	20%	50V 50V 50V 25V 50V
C002 C004 C005 C006	1-126-916-11 1-163-001-11 1-163-001-11		1000MF 220PF 220PF	20% 10% 10% 10%	6 3V 50V 50V 50V	C315 C316 C317 C318	1-126-934-11 1-131-374-00	ELECT TANTALUM CERAMIC CHIP	220MF 33MF	20% 10% 20%	16V 16V 50V 50V
C007 C009 C010 C011 C012	1-163-001-11 1-163-001-11 1-163-001-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	220PF 220PF 220PF	10% 10% 10% 10% 10%	50V 50V 50V 50V 50V	C319 C320 C321 C323	1-163-031-11	ELECT CERAMIC CHIP CERAMIC CHIP	001MF		50V 50V 50V 50V
C013 C014 C015 C016	1-163-001-11 1-163-001-11 1-163-001-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	220PF 220PF 220PF	10% 10% 10% 10%	50V 50V 50V 50V	C324 C327 C328 C329	1-163-251-11 1-163-001-11	CERAMIC CHIP CERAMIC CHIP	100PF 220PF	20% 5% 5% 10%	50V 50V 50V 50V
C017 C018 C019 C020	1-163-001-11 1-163-001-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	220PF 220PF	10% 10% 10% 10%	50V 50V 50V 50V	C338 C339 C340	1-126-963-11 1-124-464-11 1-163-133-00 1-124-902-00	ELECT CERAMIC CHIP	4 7MF 0.22MF 470PF 0 47MF	20% 20% 5% 20%	50V 50V 50V
C021 C022 C023 C024	1-163-001-11 1-163-001-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	220PF 220PF	10% 10% 10% 10%	50V 50V 50V 50V	C342 C343 C344 C345				20% 20%	50V 50V 50V 50V
C025 C026 C028	1-163-001-11 1-163-001-11 1-163-001-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	220PF 220PF 220PF	10% 10% 10%	50V 50V 50V 50V	C346 C347 C348 C349 C350	1-124-902-00 1-163-231-11	CERAMIC CHIP CERAMIC CHIP	0 47MF 15PF	20% 5% 5% 20%	50V 50V 50V 50V 50V
C030 C031 C032 C033	1-163-001-11 1-163-001-11 1-163-001-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	220PF 220PF 220PF	10% 10% 10% 10%	50V 50V 50V 50V 25V	C352 C353	1-163-031-11 1-104-665-11	CERAMIC CHIP ELECT	0 01MF 100MF	20%	50V 25V
C034 C035 C037 C038	1-124-903-11	CERAMIC CHIP ELECT	1MF 0 001MF 330MF	10% 20% 10% 20% 20%	50V 50V 50V 16V 50V	C354 C355 C357	1-126-965-11 1-104-664-11	-	22MF 47MF	5% 20% 20%	50V (KP-41T25) 50V (KP-41T25) 25V (KP-41T25)
C040 C041 C042 C046	1-163-001-11 1-163-001-11 1-163-125-00	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	220PF	10% 10% 5%	50V 50V 50V	C358 C359		CERAMIC CHIP		5% 5%	50V (KP-41T25) 50V
C047 C048 C049 C050	1-163-001-11	ELECT CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	220PF	20% 5% 10%	50V 50V 50V 50V	C360 C361	1-126-964-11 1-126-964-11		10MF 10MF	20% 20%	(KP-41T25) 50V (KP-41T25) 50V (KP-41T25)
C050 C051 C054 C055	1-163-017-00 1-163-001-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0 0047MF 220PF	10% 10% 10%	50V 50V 50V	C362 C363		CERAMIC CHIP		5% 10%	50V (KP-41T25) 50V
C056 C057 C058 C060	1-163-229-11 1-163-102-00 1-124-903-11		12PF 24PF 1MF	10% 5% 5% 20%	50V 50V 50V 50V	C364 C365	1-126-964-11		10 MF	20%	(KP-41T25) 50V (KP-41T25) 50V
C062 C063 C064 C065	1-126-964-11 1-126-964-11		10MF 10MF	20% 20%	25V 50V 50V 25V	C366 C368	1-163-227-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	10PF	5% 0 5PF 10%	(KP-41T25) 50V 50V 25V
C066 C067 C068		CERAMIC CHIP FILM		5% 5%	50V 50V 50V	C370 C371	1-104-665-11 1-104-665-11	ELECT	100MF 100MF	20% 20%	25V 25V
C069 C070 C071	1-137-375-11 1-104-664-11 1-124-464-11	FILM ELECT	0 068MF 47MF 0 22MF	5% 20% 20%	50V 25V 50V	CJ001	1-216-295-91	CHIP CONDUCTOR, O			



REF. NO PART NO DESCRIPTION REMARK	REF NO	PART NO	DESCRIPTION	REMARK
CJ002 1-216-295-91 CONDUCTOR, CHIP CJ003 1-216-295-91 CONDUCTOR, CHIP	IC004 IC005		IC Z8622812PSC IC ST24C01FB6	
<connector></connector>	IC006 IC301 IC302		IC MN1280-S IC CXA1477AS IC TA7805S	
CN046 *1-564-512-11 PLUG, CONNECTOR 9P CN052 *1-564-507-11 PLUG, CONNECTOR 4P	125)		«COII »	
(KP-41T25/46S25/53S CN053 *1-564-507-11 PLUG, CONNECTOR 4P CN054 1-573-979-21 CONNECTOR, BOARD TO BOARD 11P CN304 *1-564-512-11 PLUG, CONNECTOR 9P	L003 L004 L005	1-410-476-11	<coil> INDUCTOR 10UH INDUCTOR 33UH INDUCTOR 10UH</coil>	
CN314 *1-564-509-11 PLUG, CONNECTOR 6P (KP-41T25) CN321 1-573-301-21 CONNECTOR, BOARD TO BOARD 20P CN322 1-573-301-21 CONNECTOR, BOARD TO BOARD 20P CN351 *1-564-509-11 PLUG, CONNECTOR 6P	L006 L302 L303	1-410-470-11 1-408-413-00	INDUCTOR 10UH INDUCTOR 22UH (KP-41' INDUCTOR 39UH (KP-41'	,
CN355 *1-565-930-11 CONNECTOR (RECEPTACLE) 30P	L304		INDUCTOR 6 8UH	
CN356 *1-566-367-11 CONNECTOR, HINGE (RECEPTACLE) CN357 *1-564-516-11 PLUG, CONNECTOR 13P CN358 *1-564-508-11 PLUG, CONNECTOR 5P			<transistor></transistor>	
<diode></diode>	Q001 Q002 Q003 Q004	8-729-422-27 8-729-422-27	TRANSISTOR 2SA1162-G TRANSISTOR 2SD601A-Q TRANSISTOR 2SD601A-Q TRANSISTOR 2SA1162-G))
D001 8-719-404-46 DIODE MA110 D002 8-719-404-46 DIODE MA110	Q005		TRANSISTOR 2SD601A-Q	
D003 8-719-404-46 DIODE MA110 D004 8-719-109-89 DIODE RD5 6ESB2 D005 8-719-109-89 DIODE RD5 6ESB2	Q006 Q007 Q008	8-729-216-22 8-729-216-22	TRANSISTOR 2SD601A-Q TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G	
D006 8-719-109-89 DIODE RD5 6ESB2 D007 8-719-109-89 DIODE RD5.6ESB2	Q009 Q010		TRANSISTOR 2SD601A-Q TRANSISTOR 2SA1162-G	
D008 8-719-002-81 DIODE 1T363 D009 8-719-404-46 DIODE MA110 D010 8-719-404-46 DIODE MA110	Q011 Q012 Q013	8-729-422-27	TRANSISTOR 2SA1162-G TRANSISTOR 2SD601A-C TRANSISTOR 2SA1162-G	2
D011 8-719-404-46 DIODE MA110 D012 8-719-404-46 DIODE MA110	Q014		TRANSISTOR 2SA1162-G (KP-	41T25/46S25/53S25)
D013 8-719-404-46 DIODE MA110 D014 8-719-404-46 DIODE MA110 D015 8-719-404-46 DIODE MA110	Q015		•	41T25/46S25/53S25)
D016 8-719-404-46 DIODE MA110	Q016		TRANSISTOR 2SA1162-G (KP- TRANSISTOR 2SD601A-Q	41T25/46S25/53S25)
D017 8-719-404-46 DIODE MA110 D018 8-719-404-46 DIODE MA110 D019 8-719-404-46 DIODE MA110 D020 8-719-105-91 DIODE RD5 6M-B2	Q017 Q018 Q019 Q301	8-729-216-22 8-729-422-27	TRANSISTOR 2SD601A-C TRANSISTOR 2SD601A-C TRANSISTOR 2SA1162-G	?
D305 8-719-923-60 DIODE MTZJ-T-77-9 1A D307 8-719-923-60 DIODE MTZJ-T-77-9 1A	Q302 Q303	8-729-216-22	TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G	+
D308 8-719-110-22 DIODE RD11ESB2 D309 8-719-109-84 DIODE RD5 1ESB1 D310 8-719-914-44 DIODE DAP202K	Q304 Q305 Q307	8-729-422-27	TRANSISTOR 2SA1162-G TRANSISTOR 2SD601A-C TRANSISTOR 2SD601A-C)
D311 8-719-914-43 DIODE DAN202K D312 8-719-404-46 DIODE MA110	Q308 Q309	8-729-216-22	TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G	•
D313 8-719-404-46 DIODE MA110 D314 8-719-404-46 DIODE MA110 D315 8-719-109-89 DIODE RD5 6ESB2	Q310 Q311 Q312	8-729-422-27	TRANSISTOR 2SD601A-C TRANSISTOR 2SD601A-C TRANSISTOR 2SD601A-C	j` í
D316 8-719-404-46 DIODE MA110 D317 8-719-110-22 DIODE RD11ESB2	Q313 Q314	8-729-422-27	TRANSISTOR 2SD601A-C	(KP-41T25)
D320 8-719-404-46 DIODE MA110 (KP-41T25) D321 8-719-404-46 DIODE MA110 (KP-41T25) D322 8-719-404-46 DIODE MA110 (KP-41T25)	Q315 Q316 Q317	8-729-422-27	TRANSISTOR 2SD601A-C TRANSISTOR 2SD601A-C TRANSISTOR 2SA1162-G	(KP-41T25)
D323 8-719-404-46 DIODE MA110 (KP-41T25) D324 8-719-404-46 DIODE MA110 (KP-41T25) D325 8-719-404-46 DIODE MA110 (KP-41T25)	Q318 Q319 Q320	8-729-422-27	TRANSISTOR 2SD601A-C TRANSISTOR 2SD601A-C TRANSISTOR 2SD601A-C	(KP-41T25)
D325 8-719-404-46 DIODE MA110 (KP-41T25) D326 8-719-110-08 DIODE RD8 2ESB2 D327 8-719-404-46 DIODE MA110	Q321 Q322	8-729-422-27	TRANSISTOR 2SD601A-C	(KP-41T25)
D328 8-719-991-33 DIODE 1SS133T-77			<resistor></resistor>	
<ic></ic>	R001		METAL GLAZE 1K	5% 1/10W
IC001 8-759-112-06 IC uPC78N05H IC002 8-752-859-03 IC CXP85332A-056S IC003 8-759-370-33 IC ST24C04FB6	R002 R003 R004 R005	1-216-033-00 1-216-033-00	METAL GLAZE 1K METAL GLAZE 220 METAL GLAZE 220 METAL GLAZE 220	5% 1/10W 5% 1/10W 5% 1/10W 5% 1/10W



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REF. NO	PART NO	DESCRIPTION		REMARK	REF NO	PART NO	DESCRIPTION		REMARK
R006	1 216 022 00	METAL GLAZE 220	5%	1/10W	R075	1 216 060 00	METAL GLAZE	6 8K 59	% 1/10W
R007		METAL GLAZE 220 METAL GLAZE 220	5%	1/10W	R075		METAL GLAZE		
R007		METAL GLAZE 220	5%	1/10W	R077		METAL GLAZE		
R009		METAL GLAZE 220	5%	1/10W	R078		METAL GLAZE		% 1/10W
R010	1-216-073-00	METAL GLAZE 10K	5%	1/10W					
					R079		METAL GLAZE		
R011		METAL GLAZE 220	5%	1/10W	R080		METAL GLAZE		
R012		METAL GLAZE 220	5%	1/10W	R081		METAL GLAZE		
R013		METAL GLAZE 10K	5% 5%	1/10W 1/10W	R082 R083		METAL GLAZE METAL GLAZE		
R014 R015		METAL GLAZE 10K METAL GLAZE 220	5%	1/10W 1/10W	K063	1-210-003-00	METAL OLAZE	47K 3	70 1710**
KO13	1-210-033-00	MILITAL GLAZE 220	370	1/10**	R084	1-216-073-00	METAL GLAZE	10K 59	% 1/10W
R016	1-216-033-00	METAL GLAZE 220	5%	1/10W	R085		METAL GLAZE		% 1/10W
			KP-41T25/	46\$25/53\$25)	R086		METAL GLAZE		% 1/10W
R017	1-216-073-00	METAL GLAZE 10K	5%	1/10W	R087		METAL GLAZE		
D010	1 01/ 040 01			46S25/53S25)	R088	1-216-089-91	METAL GLAZE	47K 59	% 1/10 W
R018		METAL GLAZE 1K	5%	1/10W	DANA	1 216 065 00	METAL GLAZE	4.7K 59	% 1/10W
R019 R020		METAL GLAZE 220 METAL GLAZE 220	5% 5%	1/10W 1/10W	R089 R090		METAL GLAZE		
K020	1-210-055-00	METAL GLAZE 220	570	1/10**	R091		METAL GLAZE		
R021	1-216-033-00	METAL GLAZE 220	5%	1/10W	11051				25/46S25/53S25)
R022		METAL GLAZE 100K	5%	1/10W	R092	1-216-081-00	METAL GLAZE		
R023		METAL GLAZE 1M	5%	1/10W				(25/46S25/53S25)
R024		METAL GLAZE 47K	5%	1/10W	R093	1-216-295-91	CONDUCTOR, C	CHIP (KP-41T)	25/46825/53825)
R025	1-216-073-00	METAL GLAZE 10K	5%	1/10W	R094	1 216 091 00	METAL CLAZE	22K 5	% 1/10 W
R026	1.216-073.00	METAL GLAZE 10K	5%	1/10W	K094	1-210-081-00	METAL GLAZE		25/46S25/53S25)
R020 R027		METAL GLAZE 10K	5%	1/10W 1/10W	R095	1-216-081-00	METAL GLAZE		
R028		METAL GLAZE 47K	5%	1/10W	11070				25/46S25/53S25)
R029		METAL GLAZE 47K	5%	1/10W	R096	1-216-081-00	METAL GLAZE		
R031	1-216-065-00	METAL GLAZE 47K	5%	1/10 W					25/46\$25/53\$25)
					R097	1-216-081-00	METAL GLAZE		
R032		METAL GLAZE 47K	5%	1/10W	DOOG	1 216 001 00	METAL CLATE		(25/46S25/53S25)
R033 R034		METAL GLAZE 4.7K METAL GLAZE 10K	5% 5%	1/10 W 1/10 W	R098	1-210-001-00	METAL GLAZE		% 1/10W 25/46S25/53S25)
R034		METAL GLAZE 10K	5%	1/10W	i !			(111-411	23140023133023)
R036		METAL GLAZE 100	5%	1/10W	R099	1-216-081-00	METAL GLAZE	22K 5	% 1/10W
									25/46S25/53S25)
R037		METAL GLAZE 220	5%	1/10W	R100		CONDUCTOR, C		
R038		METAL GLAZE 220	5%	1/10W	R101		METAL GLAZE		% 1/10W
R039		METAL GLAZE 100	5%	1/10W	R102		METAL GLAZE		
R040		METAL GLAZE 220	5% 5%	1/10W 1/10W	R103	1-216-045-00	METAL GLAZE	680 5	% 1/10W
R041	1-210-033-00	METAL GLAZE 220	370	1/10 W	R104	1-216-033-00	METAL GLAZE	220 59	% 1/10W
R042	1-216-033-00	METAL GLAZE 220	5%	1/10W	R106		METAL GLAZE		
R043		METAL GLAZE 10K	5%	1/10W	R107		METAL GLAZE		
R044		METAL GLAZE 47K	5%	1/10W	R108		METAL GLAZE		
R045		METAL GLAZE 220	5%	1/10W	R109	1-216-033-00	METAL GLAZE	220 5	% 1/10W
R046	1-216-033-00	METAL GLAZE 220	5%	1/10W	D110	1 216 022 00	METAL GLAZE	220 5	% 1/10W
R047	1 216 022 00	METAL GLAZE 220	5%	1/10W	R110 R111		METAL GLAZE		% 1/10W % 1/10W
R047 R048		METAL GLAZE 220 METAL GLAZE 10K	5%	1/10W	R112		METAL GLAZE		% 1/10W
R049		METAL GLAZE 220	5%	1/10W	R113		METAL GLAZE		% 1/10W
R050		METAL GLAZE 1K	5%	1/10W	R114		METAL GLAZE		% 1/10W
R051	1-216-049-91	METAL GLAZE 1K	5%	1/10W					
					R115		METAL GLAZE		% 1/10W
R052		METAL GLAZE 47K	5%	1/10W 1/10W	R116 R117		METAL GLAZE METAL GLAZE		% 1/10W % 1/10W
R054 R055		METAL GLAZE 10K METAL GLAZE 1K	5% 5%	1/10W 1/10W	R117		METAL GLAZE		% 1/10W % 1/10W
R056		METAL GLAZE IK	5%	1/10W	R119		METAL GLAZE		% 1/10W
R057		METAL GLAZE 4.7K	5%	1/10W				-	
					R120		METAL GLAZE		% 1/10W
R058		METAL GLAZE 10K	5%	1/10W	R300		METAL GLAZE		% 1/10W
R059		CONDUCTOR, CHIP			R301		METAL GLAZE		% 1/10W
R060		METAL GLAZE 47K	5%	1/10W	R302		METAL GLAZE		% 1/10W
R061	1-216-033-00	METAL GLAZE 220	5% KD 41T25.	1/10W /46S25/53S25)	R303	1-210-049-91	METAL GLAZE	11/ 2	% 1/10W
R062	1-216-085-00	METAL GLAZE 33K	KF-41123/ 5%	1/10W	R304	1-216-049-91	METAL GLAZE	1K 5	% 1/10W
1002	1 210 005-00	ODALL JJK	3 70	1/10 11	R305		METAL GLAZE		% 1/10 W
R063	1-216-041-00	METAL GLAZE 470	5%	1/10W	R306		METAL GLAZE		% 1/10W
R064	1-216-065-00	METAL GLAZE 47K	5%	1/10W	R307		METAL GLAZE		% 1/10W
R065		METAL GLAZE 100K		1/10W	R308	1-216-073-00	METAL GLAZE	10K 5	% 1/10W
R066		METAL GLAZE 1K	5%	1/10W	D200	1 216 025 01	METAL OLAGE	100 -	of. 1/1000
R067	1-210-049-91	METAL GLAZE 1K	5%	1/10W	R309		METAL GLAZE METAL GLAZE		% 1/10W % 1/10W
R068	1-216-040-01	METAL GLAZE 1K	5%	1/10W	R310 R311		METAL GLAZE		% 1/10W % 1/10W
R069		METAL GLAZE 18 METAL GLAZE 10K	5%	1/10W 1/10W	R311		METAL GLAZE		% 1/10W
R071		METAL GLAZE 10K	5%	1/10W	R313		METAL GLAZE		% 1/10W
R072		METAL GLAZE 470	5%	1/10W					
R073		METAL GLAZE 1K	5%	1/10W	R314		METAL GLAZE		% 1/10W
D07.4	1 016 040 04	METAL OF ACT 12	<i></i>	1/10337	R315		METAL GLAZE		% 1/10W
R074	1-216-049-91	METAL GLAZE 1K	5%	1/10W	R317	1-210-055-00	METAL GLAZE	220 5	% 1/10W

M G

Les composants identifies par une trame et une marque $\hat{\Lambda}$ sont critiques pour la securite Ne les remplacer que par une piece portant le numero specifie

The componants identified by shading and mark extstyle
REF NO.	PART NO	DESCRIPTION		REMARK ;	REF. NO	PART NO	DESCRIPTION			REMARK
R318		METAL GLAZE 8 2K	5%	1/10W	R375	1-216-075-00	METAL GLAZE	12K	5%	1/10W
R319		METAL GLAZE 470	5%	1/8W	R376	1-216-093-00	METAL GLAZE	68K	5%	(KP-41T25) 1/10W
R320 R321 R323	1-216-190-00	METAL GLAZE 47K METAL GLAZE 470 CONDUCTOR, CHIP	5% 5%	1/10W 1/8W	R377	1-216-043-91	METAL GLAZE	560	5%	(KP-41T25) 1/10W (KP-41T25)
R324 R325	1-216-025-91	METAL GLAZE 100 METAL GLAZE 560	5% 5%	1/10 W 1/10 W	R378	1-216-059-00	METAL GLAZE	2 7K	5%	1/10 W
R326		METAL GLAZE 15K	5%	1/10W	R379	1-216-083-00	METAL GLAZE	27K	5%	(KP-41T25) 1/10W
R327 R328	1-216-025-91	METAL GLAZE 220 METAL GLAZE 100	5% 5%	1/10W 1/10W	R380	1-216-097-91	METAL GLAZE	100 K	5%	(KP-41T25) 1/10W
R329 R330		METAL GLAZE 33K METAL GLAZE 390	5% 5%	1/10W 1/10W	R381	1-216-071-00	METAL GLAZE	8 2K	5%	(KP-41T25) 1/10W
R331 R332		METAL GLAZE 27K METAL GLAZE 1K	5% 5%	1/10W 1/10W	R382	1-216-085-00	METAL GLAZE	33K	5%	(KP-41T25) 1/10W (KP-41T25)
R333 R335 R336	1-216-033-00	METAL CHIP 15K METAL GLAZE 220 METAL GLAZE 220	0 50% 5% 5%	1/10W 1/10W 1/10W	R383	1-216-043-91	METAL GLAZE	560	5%	1/10W (KP-41T25)
R337		METAL GLAZE 1K	5%	1/10W	R384	1-216-053-00	METAL GLAZE	1 5K	5%	1/10W (KP-41T25)
R338 R339	1-216-049-91	METAL GLAZE 1K METAL CHIP 1 5K	5% 0 50%	1/10W	R385	1-216-085-00	METAL GLAZE	33K	5%	1/10W (KP-41T25)
R340 R341	1-216-033-00	METAL GLAZE 220 METAL GLAZE 220	5% 5%	1/10W 1/10W	R386	1-216-121-91	METAL GLAZE	1 M	5%	1/10W (KP-41T25)
R342		METAL GLAZE 220	5%	1/10W	R387	1-216-049-91	METAL GLAZE	1K	5%	1/10W (KP-41T25)
R343 R344 R345	1-216-077-00 1-216-073-00	METAL GLAZE 15K METAL GLAZE 10K METAL GLAZE 100	5% 5% 5%	1/10W 1/10W 1/10W	R388	1-216-025-91	METAL GLAZE	100	5%	1/10W (KP-41T25)
R346		METAL GLAZE 100 METAL GLAZE 330	5%	1/10 W	R389	1-216-033-00	METAL GLAZE	220	5%	1/10W (KP-41T25)
R347 R348		METAL GLAZE 470 METAL GLAZE 1K	5% 5%	1/10W 1/10W	R390 R391	1-216-061-00	METAL GLAZE METAL GLAZE METAL GLAZE	3 3K	5% 5% 5%	1/10W 1/10W 1/10W
R349		METAL GLAZE 220	5%	(KP-41T25) 1/10W	R392 R393		METAL GLAZE		5%	1/10W
R350 R351		METAL GLAZE 220 METAL GLAZE 220	5% 5%	1/10W 1/10W					370	(KP-41T25)
R352	1-216-057-00	METAL GLAZE 22K	5%	1/10W	R394	1-210-293-91	CONDUCTOR, C	,nir		
R353	1-216-069-00	METAL GLAZE 68K	5%	(KP-41T25) 1/10W (KP-41T25)			<crystal></crystal>			
R354		METAL GLAZE 15K METAL GLAZE 82K	5% 5%	1/10W 1/10W	X001 X301		VIBRATOR, CR. OSCILALTOR, C			
R355 R356		METAL GLAZE 8 2K METAL GLAZE 180	5%	1/10W 1/10W (KP-41T25)	X302		OSCILLATOR, O			
R357		METAL GLAZE 180	5%	1/10W (KP-41T25)	*****	******	******	******	*****	*****
R358 R359		METAL GLAZE 1K METAL GLAZE 330	5% 5%	1/10W 1/10W (KP-41T25)		* A-1316-212-A	G BOARD, CO	and and and and and and and a		
R360 R361		METAL GLAZE 270 METAL GLAZE 1K	5% 5%	1/10W 1/10W		* 4-047-936-01	PLATE, SHIELD	, PIT		
R362	1-216-035-00	METAL GLAZE 270	5%	1/10W			<capacitor></capacitor>			
R363	1-216-049-91	METAL GLAZE 1K	5%	(KP-41T25) 1/10W	C/01	A 1 196 911 51		0.47MF	20%	125V
R364	1-216-025-91	METAL GLAZE 100	5%	(KP-41T25) 1/10W	C602	<u> </u>	ELECT	0.0022MF 0.0022MF	20%	250V 250V
R366	1-216-053-00	METAL GLAZE 15K	5%	(KP-41T25) 1/10W	C604	A 1-125-692-11	ELECT(BLOCK)	820MF	20% 20% 20%	200V 200V
R367	1-216-057-00	METAL GLAZE 22K	5%	(KP-41T25) 1/10W			CERAMIC	1000PF	10%	500V
D260	1 216 025 01	METAL CLAZE 100	5 01	(KP-41T25)	C609	1-164-645-11 1-164-645-11	CERAMIC	1000FF 1000PF 0 47MF	10% 10% 5%	500V 500V 50V
R368		METAL GLAZE 100	5%	1/10W (KP-41T25)		1-136-173-00 1-136-171-00	FILM	0 33MF	5% 5%	50V
R369		METAL GLAZE 33K	5%	1/10W (KP-41T25)		1-136-171-00		0 47MF 0 33MF	5% 5%	50V 50V
R370 R371		METAL GLAZE 220 METAL GLAZE 1K	5% 5%	1/10W 1/10W	C613 C614		CAPACITOR	0 0015MF 0.033MF		500V 500V 630V
R372	1-216-051-00	METAL GLAZE 12K	5%	(KP-41T25) 1/10W (KP-41T25)	C616	1-129-720-00 <u>↑</u> 1-136-311-51 <u>↑</u> 1-113-910-91	FILM	0.033MF 0.47MF 470PF	20% 10%	125V 250V
R373	1-216-035-00	METAL GLAZE 270	5%	1/10W	C619	<u> </u>		470 PF	10%	250V
R374	1-216-085-00	METAL GLAZE 33K	5%	(KP-41T25) 1/10W	C652	1-128-548-11 1-128-548-11	ELECT	4700MF 4700MF 0 001MF	20% 20% 10%	25V 25V 500V
				(KP-41T25)	C653	1-162-318-11	CERAMIC	OUTIMIL	10%	200 v

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REF. NO.	PART NO	DESCRIPTION			REMARK	REF NO	PART NO	DESCRIPTION	REMARK
C656 C657 C658 C659 C660	1-128-548-11 1-126-926-11 1-126-768-11 1-126-944-11 1-164-644-11	ELECT ELECT ELECT	4700MF 1000MF 2200MF 3300MF 330PF	20% 20% 20% 20% 10%	25V 10V 16V 25V 500V	D671 D672 D673 D674 D675	8-719-109-54 8-719-110-49 8-719-991-33	DIODE 1SS133T-77 DIODE RD2 2ESB2 DIODE RD18ESB2 DIODE 1SS133T-77 DIODE RD5 1ESB2	
C661 C662 C663 C664 C665	1-104-044-11 1-123-024-21 1-107-636-11 1-126-948-11 1-126-235-11 1-126-964-11	ELECT ELECT ELECT ELECT	33MF 10MF 100MF 100MF 10MF	20% 20% 20% 20% 20%	160V 160V 35V 6 3V 50V	D676 D677 D678 D679 D680	8-719-991-33 8-719-991-33 8-719-991-33	DIODE 1SS133T-77 DIODE 1SS133T-77 DIODE 1SS133T-77 DIODE 1SS133T-77 DIODE 1SS133T-77 DIODE 11ES2	
C667 C668 C669 C670 C671	1-126-951-11 1-104-664-11 1-162-318-11 1-104-664-11 1-104-664-11	ELECT CERAMIC ELECT ELECT	470MF 47MF 0 001MF 47MF 47MF	20% 20% 10% 20% 20%	35V 25V 500V 25V 25V	D681 D682 D683 D685 D686	8-719-200-82 8-719-200-82 8-719-991-33 8-719-991-33	DIODE 11ES2 DIODE 11ES2 DIODE 11ES2 DIODE 1SS133T-77 DIODE 1SS133T-77	
C672 C673 C674 C675 C676 C677	1-104-665-11 1-104-664-11 1-104-664-11 1-104-664-11 1-125-473-11	ELECT ELECT ELECT	100MF 47MF 47MF 47MF 47MF 1000MF	20% 20% 20% 20% 20% 20%	25V 25V 25V 25V 25V 160V	D687 D688 D689 D690 D691	8-719-991-33 8-719-991-33 8-719-109-89 8-719-991-33	DIODE RD5 1ESB2 DIODE 1SS133T-77 DIODE 1SS133T-77 DIODE RD5 6ESB2 DIODE 1SS133T-77 DIODE 1SS133T-77	
C678 C679 C680 C682 C683	1-107-635-11 1-164-644-11 1-124-903-11 1-124-903-11 1-107-635-11	ELECT CERAMIC ELECT ELECT	4 7MF 330PF 1MF 1MF 4 7MF	20% 10% 20% 20% 20%	160V 500V 50V 50V 160V	F601 ≜	1-576-193-11	<fuse> FUSE 6.3A/125V CLIP, FUSE; F601</fuse>	
C690 C691	1-126-934-11 1-126-964-11		220MF 10MF	20% 20%	16V 50V			<ferrite bead=""></ferrite>	
		<connector></connector>				FB651 FB652		FERRITE BEAD IND FERRITE BEAD IND	
CN606 CN615 CN616 CN617 CN624	1-695-915-11 * 1-564-507-11 * 1-580-843-11	TAB (CONTACT TAB (CONTACT PLUG, CONNECT PIN, CONNECT PLUG, CONNECT	Ý) TOR 4P DR (POWE	R)		IC651 //		<ic> POWER MODULE (I IC MCT7812CT</ic>	DM-48)
CN625 CN626 CN653 CN681	* 1-564-506-11 * 1-564-507-11	PLUG, CONNEC PLUG, CONNEC PLUG, CONNEC PIN, CONNECTO	TOR 3P TOR 4P	ARD) 5	P	L651 L652	1-403-588-11	<coil> CIL, CHOKE 22UH CIL, CHOKE 22UH</coil>	
		<diode></diode>				L653 L654 L655	1-403-588-11	INDUCTOR 3 3UH CIL, CHOKE 22UH CIL, CHOKE 22UH	
D601 D604 D605 D606 D607	8-719-991-33 8-719-991-33 8-719-991-33	DIODE LN4SB66 DIODE 1SS133T DIODE 1SS133T DIODE 1SS133T DIODE 1SS133T	-77 -77 -77			L656 L657 L658	1-403-588-11	INDUCTOR 3 3UH CIL, CHOKE 22UH CIL, CHOKE 22UH	
D608 D609	8-719-991-33	DIODE 1SS133T DIODE 1SS133T	-77					<transistor></transistor>	
D610 D611 D651 D655	8-719-991-33 8-719-052-91	DIODE 1SS133T DIODE 1SS133T DIODE D4SBS4- DIODE D10SBS4	-77 F			Q601 Q602 Q651 Q652 Q653	8-729-019-49 8-729-820-82 8-729-119-76	TRANSISTOR 2SC48 TRANSISTOR 2SC48 TRANSISTOR 2SA12 TRANSISTOR 2SA11 TRANSISTOR 2SC24	34M :08-S 75-HFE
D656 D657 D658 D659	8-719-022-97 8-719-022-97 8-719-022-97	DIODE D2S4MF DIODE D2S4MF DIODE D2S4MF DIODE D2S4MF				Q654 Q655 Q656	8-729-119-76 8-729-230-45 8-729-119-76	TRANSISTOR 2SA11 TRANSISTOR 2SC24 TRANSISTOR 2SA11	75-HFE 58-YGR 75-HFE
D660 D661 D662 D663 D664	8-719-052-86 8-719-052-31 8-719-052-31	DIODE D2L40-T DIODE D2L40-T DIODE D1NL40- DIODE D1NL40- DIODE D1NL20-	A TR2 TR2			Q657 Q658 Q659 Q660 Q661	8-729-119-76 8-729-119-76 8-729-119-76 8-729-119-76	TRANSISTOR 2SC27 TRANSISTOR 2SA11 TRANSISTOR 2SA11 TRANSISTOR 2SA11 TRANSISTOR 2SA11	75-HFE 75-HFE 75-HFE 75-HFE
D665 D666 D667 D669 D670	8-719-110-58 8-719-921-80 8-719-991-33	DIODE 1SS133T DIODE RD22ESI DIODE MTZJ-11 DIODE 1SS133T DIODE RD15ESI	33 B -77			Q662 Q663		TRANSISTOR 2SA11 TRANSISTOR 2SA11 <resistor></resistor>	
	'-					R602 A	1-219-236-91	SOLID 2.2N	И 20% 1/2W



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Replace only with part number specified

REF. NO.	PART NO	DESCRIPTION			REMARK :	REF NO	PART NO	DESCRIPTION	врестеч	I	REMARK
	***************************************	WIREWOUND	2.2	5%	10W	KEI 110	171101	<relay></relay>		=	
R604	£ 1-247-891-91	CARBON	330K	5%	1/4W	DAZOI.	å 1 mee 000 11				
	<u>ለ 1-247-891-91</u> <u>ለ 1-202-933-61</u>			5% 10%	1/4W 1/2W F		A 1-755-032-11 A 1-755-032-11				
R607	1-247-891-00			5%	1/4W			TO AMERICAN TO	n.		
R608 R609	1-247-891-00 1-216-369-00	METAL OXIDE		5% 5%	1/4W 2W F			<transforme< td=""><td>K></td><td></td><td></td></transforme<>	K>		
R610 R611	1-247-891-00 1-247-891-00			5% 5%	1/4W 1/4W			TRANSFORMER TRANSFORMER			T)
R612		METAL OXIDE		5%	2W F	T603	▲ 1-427-865-11	TRANSFORMER TRANSFORMER	, POWER		
R613	1-247-791-91	CARBON	22	5%	1/4W			TRANSFORMER			,
R614 R615	1-247-791-91 1-247-791-91	CARBON	22	5% 5%	1/4 W 1/4 W						
R616	1-247-791-91	CARBON	22	5%	1/4 W	*****	******	******	*****	*****	*****
R631 R632	1-247-863-91 1-247-807-31			5% 5%	1/4W 1/4W		* A-1331-498-A	CR BOARD, CO	MPLETE		
R633	1-247-807-31	CARBON	100	5%	1/4 W		11 1001 170 11	******			
R634 R635	1-249-417-11 1-249-425-11			5% 5%	1/4W 1/4W						
R636	1-249-413-11	CARBON	470	5%	1/4 W			<capacitor></capacitor>			
R651 R653	1-216-370-11 1-249-418-11	METAL OXIDE		5% 5%	2W F 1/4W F	C701	1-104-664-11	ELECT	47MF	20%	25V
R654	1-215-473-00	METAL	150K	1%	1/4W	C702	1-107-662-11	ELECT	22MF	20%	250V
R655	1-249-441-11			5%	1/4W	C703 C704	1-161-754-00 1-126-768-11	ELECT	0 001MF 2200MF	10% 20%	2KV 16V
R656 R657	1-216-369-00 1-249-429-11	METAL OXIDE CARBON		5% 5%	2W F 1/4W	C705	1-102-050-00	CERAMIC	0 01MF		500V
R658 R659	1-247-883-00 1-249-417-11			5% 5%	1/4W 1/4W F	C706 C707	1-102-953-00 1-102-129-00		18PF 0 01MF	5% 10%	50V 50V
R660	1-249-417-11			5%	1/4W	C708	1-104-664-11	ELECT	47MF	20%	25V
R661	1-215-471-00			1%	1/4W	C709 C710	1-107-651-11 1-102-157-00		4 7MF 560PF	20% 10%	250V 500V
R662 R663	↑ 1-215-452-91 1-215-421-00			1% 1%	1/4W 1/4W	C714	1-162-115-00	CERAMIC	330PF	10%	2KV
R664 R665	1-249-429-11 1-249-425-11			5% 5%	1/4W 1/4W	C715 C716	1-101-005-00 1-102-050-00		0 022MF 0 01MF		50V 500V
R666	1-249-429-11			5%	1/4W	0,10			* *		
R667	1-249-429-11	CARBON	10K	5%	1/4W			<connector></connector>			
R668 R670	1-215-487-00 1-247-895-91			1% 5%	1/4W 1/4W	CN701	* 1-508-784-00	PIN, CONNECTO	OR (5mm P	TCH) 1	P
R671	1-249-429-11	CARBON	10 K	5%	1/4W	CN702 CN703	* 1-564-510-11 * 1-564-512-11	PLUG, CONNEC PLUG, CONNEC	TOR 7P TOR 9P		
R672 R673	1-247-807-31 1-249-423-11			5% 5%	1/4W 1/4W	CN704 CN705		PLUG, CONNEC			
R674	1-249-413-11	CARBON	470	5%	1/4 W			·			
R675 R676	1-249-429-11 1-249-421-11			5% 5%	1/4W 1/4W		△ 1-251-179-11	TAB (CONTACT SOCKET, PICTU	RE TUBE		
R677	1-249-417-11	CARBON	1K	5%	1/4 W	CN709	* 1-564-506-11	PLUG, CONNEC	TOR 3P		
R678 R679	1-249-423-11 1-249-423-11			5% 5%	1/4W 1/4W			<diode></diode>			
R680	1-249-413-11	CARBON	470	5%	1/4W	201	0.710.001.00				
R681	1-249-425-11			5%	1/4W	D701 D702	8-719-991-33	DIODE 1SS133T DIODE 1SS133T	-77		
R682 R683	1-249-403-11 1-249-417-11			5% 5%	1/4W 1/4W	D703 D704		DIODE 1SS133T DIODE MTZJ-13			
R684 R685	1-249-417-11 1-247-863-91	CARBON	1K	5% 5%	1/4W 1/4W	D705		DIODE 11EQS04			
R686	1-249-429-11			5%	1/4W 1/4W	D706		DIODE 1SS133T			
R687	1-249-423-11			5%	1/4W	D707 D708	8-719-901-83	DIODE MTZJ-13 DIODE 1SS83			
R688 R689	1-249-423-11 1-249-429-11		3 3K 10K	5% 5%	1/4W 1/4W	D710 D711		DIODE RD5 6ES DIODE 1SS133T			
R690	1-247-863-91	CARBON	22K	5%	1/4W						
R691	1-249-417-11			5%	1/4W	D713 D716	8-719-921-86	DIODE D1N20R DIODE MTZJ-13			
R693 R694	1-249-425-11 1-249-425-11		4 7K 4 7K	5% 5%	1/4W 1/4W	D717	8-719-921-86	DIODE MTZJ-13			
R695 R697	1-249-429-11 1-249-413-11	CARBON	10K 470	5% 5%	1/4W 1/4W			<ic></ic>			
R698	1-249-429-11		10K	5%	1/4 W 1/4 W	Iogo:	0.770.044.45		2		
R699	1-249-417-11	CARBON	1K	5%	1/4 W	IC701	8-759-346-42	IC TDA6101Q/N	3		
								<coil></coil>			
						L701	1-408-420-00	INDUCTOR 470	TH.		
						L/01	1-700-727-00	11D0CIOR 4/0	U11		

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REF NO.	PART NO	DESCRIPTION		R	EMARK ;	REF NO	PART NO	DESCRIPTION		I	REMARK	
		<neon lamp=""></neon>						<diode></diode>		-		
NL701	1-519-108-99	LAMP, NEON				D731 D732	8-719-901-83	DIODE MTZJ-13 DIODE 1SS83				
		<transistor></transistor>	•			D736 D737		DIODE D1N20R DIODE MTZJ-13				
Q701	8-729-119-76	TRANSISTOR 2	SA1175-HF	E				<ic></ic>				
		<resistor></resistor>				IC731	8-759-346-42	IC TDA6101Q/N3	3			
R701 R702	1-215-411-00 1-215-414-00	METAL	390 510	1% 1%	1/4W 1/4W			<coil></coil>				
R704 R706 R707	1-202-847-00 1-249-407-11 1-215-423-00	CARBON	560K 150 1 2K	20% 5% 1%	1/2W 1/4W 1/4W	L731	1-408-429-00	INDUCTOR 470	JH			
R708	1-202-883-11		680K	20%	1/2W			<neon lamp=""></neon>				
R709 R710 R711	1-215-437-00 1-215-427-00 1-215-427-00	METAL METAL	4 7K 1 8K 1 8K	1% 1% 1%	1/4W 1/4W 1/4W	NL731	1-519-108-99	LAMP, NEON				
R712 R713	1-213-903-11	METAL OXIDE	1K	5% 20%	2W F			<resistor></resistor>				
R714 R715	1-202-818-00 1-202-818-00 1-249-436-11	SOLID	1K 1K 39K	20% 20% 5%	1/2W 1/2W 1/4W	R731 R733	1-202-847-00 1-202-883-11		560K 680K	20% 20%	1/2W 1/2W	
R716 R718	1-249-437-11 1-249-417-11	CARBON	47K 1K	5% 5%	1/4W 1/4W	R734 R735	1-202-818-00 1-249-407-11	SOLID	1K 150	20% 5%	1/2W 1/4W	
R719	1-247-807-31		100	5%	1/4W	R736	1-249-441-11		100K	5%	1/4W	
R720 R721	1-249-437-11 1-202-549-00	SOLID	47K 100	5% 20%	1/4W 1/2W	R737 R738	1-202-818-00 1-202-549-00	SOLID	1K 100	20% 20%	1/2W 1/2W	
R722	1-202-549-00	SOLID	100	20%	1/2W	R739 R740 R741	1-215-420-00 1-215-427-00 1-249-437-11	METAL	910 1 8K 47K	1% 1% 5%	1/4W 1/4W 1/4W	
		<spark gap=""></spark>				R742		METAL OXIDE		5%		F
SG701 SG702 SG703	1-519-422-11	GAP, SPARK GAP, SPARK GAP, SPARK						<spark gap=""></spark>				
						SG731		GAP, SPARK				
******	*****	******	******	*****	******	SG732 SG733		GAP, SPARK GAP, SPARK				
	* A-1331-499-A	CG BOARD, C										
								********		*****	******	**
		<capacitor></capacitor>					* A-1331-300- <i>F</i>	A CB BOARD, CO	JNIPLE1E ********			
C731 C732	1-161-754-00 1-107-662-11	ELECT	0 001MF 22MF	10% 20%	2KV 250V							
C733 C736	1-102-050-00 1-126-964-11	ELECT	0 01MF 10MF	20%	500V 50V	C7(1	1 161 754 00	<capacitor></capacitor>	0.001ME	100	arv.	
C738 C739	1-107-651-11 1-102-965-00		4 7MF 39PF	20% 5%	250V 50V	C761 C762 C763	1-161-754-00 1-107-662-11 1-102-050-00	ELECT	0 001MF 22MF 0.01MF	10% 20%	2KV 250V 500V	
C740 C741	1-102-963-00 1-126-964-11 1-102-157-00	ELECT	10MF 560PF	20% 10%	50V 500V	C766 C769	1-102-050-00 1-107-651-11 1-102-965-00	ELECT	4 7MF 39PF	20% 5%	250V 50V	
C742 C743	1-162-115-00 1-101-005-00	CERAMIC	330PF 0 022MF	10%	2KV 50V	C770	1-126-964-11		10MF	20%	50V	
C744	1-102-050-00		0 01MF		500V	C771 C772 C773	1-102-157-00 1-162-115-00 1-101-005-00	CERAMIC CERAMIC	560PF 330PF 0 022MF	10% 10%	500V 2KV 50V	
		<connector:< td=""><td>></td><td></td><td></td><td>C774</td><td>1-102-050-00</td><td>CERAMIC</td><td>0 01MF</td><td></td><td>500V</td><td></td></connector:<>	>			C774	1-102-050-00	CERAMIC	0 01MF		500V	
CN731 CN732		PIN, CONNECT PLUG, CONNEC		PITCH) 11	P			<connector></connector>				
CN733 CN734	* 1-564-512-11	PLUG, CONNEC	CTOR 9P					PIN, CONNECTO PLUG, CONNEC		PITCH) 1	P	
CN735	* 1-564-509-11	PLUG, CONNEC	CTOR 6P			CN763 CN766	* 1-564-509-11 1-695-915-11	PLUG, CONNECTAB (CONTACT	TOR 6P		904aanaan	6000000-
CN736 CN738		TAB (CONTACT SOCKET, PICTI				CN768	∆ 1-251-179-11	SOCKET, PICTU	IRE TUBE			
						! ! ! ! !		<diode></diode>				
						D761		DIODE MT71 13				

8-719-921-86 DIODE MTZJ-13



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REF NO	PART NO	DESCRIPTION		R	REMARK		REF NO	PART NO	DESCRIPTION			REMARK
D762 D763		DIODE 1SS83 DIODE 1SS133T	רד				C825	1-162-318-11	CERAMIC	0 001MF	10%	500V
D764 D765	8-719-921-86	DIODE MTZJ-13 DIODE MTZJ-13					C826 C827	1-130-467-00 1-107-651-11	FILM	470PF 4 7MF	5% 20%	50V 250V
D768		DIODE D1N20R					C828 C830	1-111-036-11 1-137-420-11	ELECT	470MF 0 047MF	20% 10%	16V 100V
D769		DIODE MTZJ-13					C831	1-126-934-11		220MF	20%	16V
		<ic></ic>					C832 C901		CERAMIC CHIP		20% 5%	50V 50V
IC761	8-759-346-42	IC TDA6101Q/N	3				C902 C903	1-137-370-11 1-137-431-11	FILM	0 01MF 560PF	5% 5%	50V 50V
		.com.					C904	1-137-358-11		0 0001MF		50V 25V
L761	1 400 420 00	<coil> INDUCTOR 470</coil>					C905 C906 C907	1-104-665-11 1-137-370-11 1-104-665-11	FILM	0 01MF 100MF	20% 5% 20%	50V 25V
L/61	1-406-429-00	INDUCTOR 4700	Jn				C907 C908 C909	1-104-003-11 1-137-361-11 1-124-903-11	FILM	330PF 1MF	5% 20%	50V 50V
		<neon lamp=""></neon>					C911		CERAMIC CHIP		5%	50V
NL760	1-519-108-99	LAMP, NEON					C912 C913	1-124-903-11 1-124-903-11	ELECT	1MF 1MF	20% 20%	50V 50V
		<resistor></resistor>					C915 C916	1-163-239-11 1-126-963-11	CERAMIC CHIP ELECT	33PF 4 7MF	5% 20%	50V 50V
R761	1-202-847-00		560K	20%	1/2W		C917	1-126-964-11		10 MF	20%	50V
R763 R764	1-202-883-11 1-202-818-00	SOLID	680K 1K	20% 20%	1/2W 1/2W		C918 C919	1-137-364-11 1-126-964-11	ELECT	0.001MF 10MF	5% 20%	50V 50V
R767 R768	1-202-818-00 1-202-549-00		1K 100	20% 20%	1/2W 1/2W		C920 C921	1-124-902-00 1-126-964-11		0 47MF 10MF	20% 20%	50V 50V
R769 R770	1-215-421-00 1-249-426-11		1K 5 6K	1% 5%	1/4W 1/4W		C923 C924	1-126-964-11 1-126-935-11		10MF 470MF	20% 20%	50V 16V
R771 R773	1-215-427-00	METAL	1 8K 68K	1% 5%	1/4W 2W	F	C925 C926	1-120-935-11 1-137-372-11 1-104-665-11	FILM	0 022MF 100MF	5% 20%	50V 25V
R774	1-249-407-11		150	5%	1/4W	1	C927	1-137-364-11		0 001MF	5%	50V
R775	1-202-549-00	SOLID	100	20%	1/2W		C929 C930	1-137-416-11 1-137-364-11		0 01MF 0 001MF	10% 5%	100V 50V
		<spark gap=""></spark>					C931 C932	1-126-967-11 1-124-903-11	ELECT	47MF 1MF	20% 20%	50V 50V
SG761		GAP, SPARK					C934	1-137-370-11		0 01MF	5%	50V
SG762 SG763		GAP, SPARK GAP, SPARK					C935 C936	1-137-399-11 1-126-964-11	ELECT	0 1MF 10MF	10% 20%	100V 50V
							C937 C938	1-126-964-11 1-126-935-11 1-126-964-11	ELECT	10MF 470MF	20% 20% 20%	50V 16V 50V
******	******	******	*******	******	*****	**	C939 C940	1-126-964-11		10MF 47MF	20%	25V
	* A-1341-885-A	A E BOARD, CO					C940 C941 C942	1-126-964-11 1-104-664-11	ELECT	10MF 47MF	20% 20% 20%	50V 25V
	4-382-854-11	SCREW (M3X10), P. SW (+)			C943 C944	1-126-965-11 1-126-964-11	ELECT	22MF 10MF	20% 20%	50V 50V
		RUBBER, SILIC)		C945	1-126-964-11		10MF	20%	50V
		<capacitor></capacitor>					C946 C947	1-124-925-11 1-104-665-11	ELECT	2 2MF 100MF	20% 20%	50V 25V
C801	1-110-626-11		330MF	20%	160V		C948 C949	1-104-665-11 1-126-964-11	ELECT ELECT	100MF 10MF	20% 20%	25V 50V
C802 C803	1-110-626-11		330MF	5% 20%	50V 160V		C950	1-126-964-11		10MF	20%	50V
C805 C806	1-136-173-00 1-102-030-00		0 47MF 330PF	5% 10%	50V 500V		C951 C955	1-109-889-11 1-126-964-11 1-137-368-11	ELECT	1MF 10MF	20% 20%	50V 50V 50V
C807 C808	1-106-387-00 1-107-636-11		0 068MF 10MF	10% 20%	200V 160V		C980	1-137-300-11	LILIM	0 0047MF	370	30 V
C809 C810	1-104-664-11 1-130-481-00	ELECT	47MF 0 0068MF	20%	25V 50V				<chip conduc<="" td=""><td>CTOR></td><td></td><td></td></chip>	CTOR>		
C811	1-137-475-11		2 2MF	10%	250V		CJ901 CJ902		CONDUCTOR,			
C812 C813	1-126-965-11 1-162-318-11		22MF 0 001MF	20% 10%	50V 500V		CJ903 CJ904	1-216-295-91	CONDUCTOR,	CHIP		
C814 C815	1-126-968-11 1-162-114-00	ELECT	100MF 0.0047MF	20%	50V 2KV							
	A 1-109-833-11		0.0145MF	***************************************	2.5KV		an veet		<connector:< td=""><td></td><td></td><td></td></connector:<>			
C819 C820	1-130-489-00 1-124-902-00	ELECT	0 033MF 0 47MF	5% 20%	50V 50V		CN802 CN805	1-695-915-11	PLUG, CONNECT	Γ)	ADD) 1) D
C823 C824	1-136-601-11 1-126-964-11		0 01MF 10MF	5% 20%	630V 50V		CN827 CN851		PIN, CONNECTOR PLUG, CONNECTOR PLUG, CONNECTOR PLUG, CONNECTOR PLUG, CONNECTOR PIN, CONNECTOR PLUG, CONNECTOR PIN, CONNECTOR PLUG, CON		AKD) :	or

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specified	•	picoc poraritio namero specific t	e required,	replace only w	ith the value origi	nally used.			
REF. NO	PART NO	DESCRIPTION REMARK	REF NO	PART NO	DESCRIPTION		!	REMARK	-
		PIN, CONNECTOR (PC BOARD) 5P PIN, CONNECTOR (PC BOARD) 4P	L803 L804 L901	1-411-286-11	COIL, AIR CORE COIL, CHOKE 22 INDUCTOR 39U	20UH			
CN884 CN885 CN886	* 1-573-964-11 * 1-506-371-00 * 1-506-371-00	PIN, CONNECTOR (PC BOARD) 6P PIN, CONNECTOR 2P PIN, CONNECTOR 2P	L902		INDUCTOR 39U				
CN904	* 1-564-507-11	PLUG, CONNECTOR 4P			<neon lamp=""></neon>				
		<diode></diode>	NL802	1-519-108-99	LAMP, NEON				
D801 D802 D803	8-719-404-46	DIODE RD5 1ESB2 DIODE MA110 DIODE ERC38-06			<transistor></transistor>				
D804 D805	8-719-908-03	DIODE GP08D DIODE ERC06-15S	Q801 Q802	8-729-119-80	TRANSISTOR 25 TRANSISTOR 25	SC2688-LK			
D806 D807 D808	8-719-945-80	DIODE 1SS133T-77 DIODE ERC06-15S DIODE D8LC40	Q803 Q806 Q807	8-729-805-07	TRANSISTOR 25 TRANSISTOR 25 TRANSISTOR 25	SD1887-CA			
D809 D810	8-719-991-33 8-719-945-80	DIODE 1SS133T-77 DIODE ERC06-15S	Q808 Q809 Q810	8-729-823-81	TRANSISTOR IS TRANSISTOR 25 TRANSISTOR 25	SC4632LS-C	CB7		
D811 D812 D814	8-719-404-46	DIODE EGP20G-PKG23 DIODE MA110 DIODE ERC91-02	Q811 Q813		TRANSISTOR 25 TRANSISTOR 25		:B7		
D816 D817	8-719-404-46	DIODE MA110 DIODE MA110	Q901 Q902 Q903	8-729-140-93	TRANSISTOR 25 TRANSISTOR 25 TRANSISTOR 25	SB733-34			
D818 D819 D901	8-719-105-82	DIODE MA110 DIODE RD5.1M-B2 DIODE MA110	Q904 Q905		TRANSISTOR 25 TRANSISTOR 25				
D902 D904		DIODE MA110 DIODE MA110	Q906 Q907 Q908	8-729-231-55	TRANSISTOR 25 TRANSISTOR 25 TRANSISTOR 25	SC2878-AB			
D905 D907 D908	8-719-404-46	DIODE MA110 DIODE MA110 DIODE RD5 1M-B2	Q909 Q910		TRANSISTOR 25				
D909 D911		DIODE EL1Z DIODE RD5 1M-B2	Q911 Q912 Q913	8-729-216-22 8-729-029-86	TRANSISTOR 25 TRANSISTOR 25 TRANSISTOR D	SA1162-G TC124ESA			
D912 D913 D914 D915	8-719-404-46 8-719-404-46	DIODE RD5 1M-B2 DIODE MA110 DIODE MA110 DIODE MA110	Q914 Q915		TRANSISTOR 25				
D916		DIODE RD3 9M-B1			<resistor></resistor>				
D917 D918 D919 D920 D921	8-719-404-46 8-719-106-81 8-759-157-40	DIODE MA110 DIODE MA110 DIODE RD13M-B3 IC uPC574J DIODE RD13M-B3	R800 R801 R802 R804 R805	1-216-033-00 1-249-421-11 1-249-425-11		220 2 2K 4 7K	0.50% 5% 5% 5% 5%	1/10W 1/4W	
D922 D923 D924 D925 D926	8-719-404-46 8-719-404-46 8-719-028-00	DIODE MA110 DIODE MA110 DIODE MA110 DIODE MA3033-L DIODE MA110		1-249-431-11 1-260-325-11 查 查 1-249-427-11	CARBON CARBON CARBON	560	5% 5% 5%	1/4W 1/2W 1/4W 1/4W 1/4W	
D927	8-719-401-32	DIODE MA3047M-TX	R811 R812	1-216-395-00	METAL GLAZE METAL OXIDE	3 3	5% 5%	1/10W 3W	F
		<ferrite bead=""></ferrite>	R813 R814	1-215-919-11	METAL OXIDE METAL OXIDE	2 2K	5% 5%	3W 3W	F F
FB001	1-410-396-41	FERRITE BEAD INDUCTOR 0 45UH	R816	1-216-395-00	METAL GLAZE METAL OXIDE	3 3	5% 5%	1/10W 3W	F
		<ic></ic>	R818 R819		METAL GLAZE		5% 5%	1/4W 1/10W	
IC901 IC902		IC uPC339C IC uPC339C	R820 R821		METAL OXIDE METAL GLAZE		5% 5%	3W 1/10W	F
IC902 IC903 IC904 IC905	8-759-711-28 8-759-634-51	IC NJM2058D IC M5218AP IC LM7912CT	R822 R823 R825	1-216-041-00 1-215-928-11	METAL OXIDE METAL GLAZE METAL OXIDE	470 68 K	5% 5% 5%	3W 1/10W 3W	F
IC906	8-759-279-76	IC MCT7812CT	R826 R830		METAL GLAZE METAL OXIDE		5% 5%	1/10W 3W	F
		<coil></coil>	R831 R832 R836		METAL OXIDE METAL GLAZE SOLID		5% 5% 20%	3W 1/10W 1/2W	F
L801 L802		COIL, CHOKE 100UH COIL, CHOKE 100UH	R837 R838		METAL OXIDE		5% 5%	1W 1/4W	F



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REF NO	PART NO	DESCRIPTION	Only Willi		EMARK	y . ¦	REF NO	PART NO	DESCRIPTION		F	EMARK
R839	1-249-429-11	CARBON	10K	5%	1/4W	F	R955	1-214-769-00	METAL	47K	1%	1/4W
R841	1-216-491-11	METAL OXIDE	56K	5%	3W	F			•	10K	0 50%	1/10W
R843 R844	1-202-549-00 1-216-491-11	METAL OXIDE	100 56 K	20% 5%		F	R956 R957	1-218-754-11	METAL CHIP METAL CHIP	120K	0 50%	1/10W
R846	1-202-838-00	SOLID	100K	20%	1/2W		R958 R959	1-218-756-11 1-214-757-00	METAL CHIP	150K 15K	0 50% 1%	1/10W 1/4W
R847		METAL GLAZE		5%	1/10W	ļ	R960		METAL GLAZE		5%	1/10W
R849 R850	1-247-863-91 1-216-081-00	CARBON METAL GLAZE	22K 22K	5% 5%	1/4W 1/10W		R962	1-208-806-11	METAL CHIP	10K	0 50%	1/10W
R851 R852	1-216-667-11	METAL CHIP METAL CHIP	4 7K 10K	0 50% 0 50%	1/10W 1/10W		R963 R964	1-214-749-00 1-214-757-00		6 8K 15K	1% 1%	1/4W 1/4W
		_					R965	1-216-097-91	METAL GLAZE	100 K	5%	1/10W
R854 R855	1-249-447-11 1-208-822-11	CARBON METAL CHIP	1 47K	5% 0 50%	1/4W 1/10W	F	R966	1-214-757-00	METAL	15K	1%	1/4 W
R856	1-208-822-11	METAL CHIP	47K	0.50%	1/10W		R967	1-216-025-91 1-214-751-00	METAL GLAZE	100 8 2K	5% 1%	1/10W 1/4W
R857 R858		METAL CHIP METAL CHIP	100K 15K	0 50% 0 50%	1/10W 1/10W		R968 R969	1-214-731-00	METAL	1 2K	1%	1/4W
R865	1-216-350-11	METAL OXIDE	1 2	5%	1W	F	R970 R971	1-214-757-00 1-216-121-91	METAL GLAZE	15K 1M	1% 5%	1/4W 1/10W
R866	1-532-781-11	FUSE, MICRO (S METAL GLAZE	SECONDAI	RY) 3 15.			R972	1 216 600 11	METAL CHIP	100K	0 50%	1/10W
R883 R888	1-216-067-00	METAL GLAZE	5 6K	5% 5%	1/10W		R973	1-216-081-00	METAL GLAZE	22K	5%	1/10 W
R901	1-216-065-00	METAL GLAZE	4 7K	5%	1/10W		R974 R975		METAL CHIP METAL GLAZE	100K 560	0 50% 5%	1/10W 1/10W
R902		METAL GLAZE		5%	1/10W		R976		METAL GLAZE		5%	1/10W
R903 R904		METAL GLAZE METAL GLAZE		5% 5%	1/10W 1/10W		R977		METAL GLAZE		5%	1/10W
R905 R906	1-247-739-11 1-247-739-11		100 100	5% 5%	1/2W 1/2W		R978 R979		METAL GLAZE METAL GLAZE		5% 5%	1/10W 1/10W
						1	R980	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R907 R908		METAL GLAZE METAL GLAZE		5% 5%	1/10W 1/10W		R981	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R909 R910		METAL GLAZE METAL GLAZE		5% 5%	1/10W 1/10W	ı	R982 ₩R983	1-216-671-11	METAL CHIP METAL GLAZE	6.8K	0.50%	1/10W 1/4W
R911		METAL GLAZE		5%	1/10W		R984	1-216-083-00	METAL GLAZE		5%	1/10 W
R912	1-216-073-00	METAL GLAZE	10K	5%	1/10W		R985 R986		METAL CHIP METAL GLAZE	18 K 1 K	0 50% 5%	1/10W 1/10W
R913 R914		METAL GLAZE METAL GLAZE		5% 5%	1/10W 1/10W		R987	1-216-059-00	METAL GLAZE	2 7K	5%	1/10W
R915	1-216-091-00	METAL GLAZE	56K	5%	1/10W	į	MR988 ∠	<u>N</u>	METAL GLAZE			1/4W
R916	1-216-065-00	METAL GLAZE	4 7K	5%	1/10W	ļ	R989 R990		METAL OXIDE METAL OXIDE		5% 5%	2W F 2W F
R917 R918		METAL GLAZE METAL GLAZE		5% 5%	1/10W 1/10W		R991	1-208-801-11	METAL CHIP	6 2K	0 50%	1/10W
R919	1-216-077-00	METAL GLAZE	15K	5%	1/10W		R992	1-249-431-11		15K	5%	1/4W
R920 R921		METAL GLAZE METAL GLAZE		5% 5%	1/10W 1/10W		R993 R994	1-249-431-11 1-247-807-31		15K 100	5% 5%	1/4W 1/4W
R922	1-216-073-00	METAL GLAZE	10 K	5%	1/10W		R995 R996		METAL CHIP METAL CHIP	12K 22K	0 50% 0 50%	1/10W 1/10W
R923	1-216-077-00	METAL GLAZE	15K	5%	1/10W							
R924 R926		METAL GLAZE METAL GLAZE		5% 5%	1/10W 1/10W		R997 R998		METAL GLAZE METAL GLAZE		5% 5%	1/10W 1/10W
R927	1-249-377-11	CARBON	0 47	5%	1/4W	F	R999	1-216-051-00	METAL GLAZE	1 2K	5%	1/10W
R928		METAL GLAZE		5%	1/10W				CDADY CAD			
R929 R930) METAL GLAZE) METAL GLAZE		5% 5%	1/10W 1/10W				<spark gap=""></spark>			
R931 R932		METAL GLAZE METAL GLAZE		5% 5%	1/10W 1/10W		SG801	1-519-422-11	GAP, SPARK			
									TD ANGEODM	D.		
R933 R934	1-216-085-00) METAL GLAZE) METAL GLAZE	33K	5% 5%	1/10W 1/10W				<transforme< td=""><td></td><td></td><td></td></transforme<>			
R935 R936		METAL GLAZE METAL GLAZE		5% 5%	1/10W 1/10W		T801	∆ 1-453-189-11	TRANSFORMER	R ASSY, FL		2631//A4S)
R937		METAL GLAZE		5%	1/10W		T802		TRANSFORME		NTAL D	
R938	1-208-810-11	METAL CHIP	15K	0 50%	1/10W		T803 .	A 1-427-980-11	TRANSFORME	C, PEKRIII	5 (LU1)	
R939 R940) METAL GLAZE) METAL GLAZE		5% 5%	1/10W 1/10W							
R941	1-216-091-00	METAL GLAZE	56K	5%	1/10W		******	*******	******	******	******	*****
R942		METAL GLAZE	1K	5%	1/10W	į		* A-1346-296-A	A D BOARD, CO			
R943 R944	1-249-377-11 1-216-689-11	CARBON METAL GLAZE	0 47 39K	5% 5%	1/4W 1/10W	F			*********	*****		
R945	1-216-077-00	METAL GLAZE	15K	5%	1/10W				SCREW (M3X10		-)	
R946 R947		METAL GLAZE METAL GLAZE		5% 5%	1/10W 1/10W			1-002-032-09	SCREW +PSW 3	V10		
R948	1-216-051-00) METAL GLAZE	1.2K	5%	1/10W				<capacitor></capacitor>			
R950 R952	1-216-049-91	METAL GLAZE METAL GLAZE	1K	5% 5%	1/10W 1/10W		C1502	1-126-943-11		2200MF	20%	25V
R954	1-214-777-00		100K	3% 1%	1/10W 1/4W		C1502		CERAMIC CHIP		10%	50V
							•					



REF. NO.	PART NO.	DESCRIPTION			REMARK	REF NO.	PART NO	DESCRIPTION			REMARK
C1504 C1505 C1506	1-126-943-11 1-136-177-00 1-102-228-00	FILM CERAMIC	2200MF 1MF 470PF	20% 5% 10%	25V 50V 500V	C1834 C1835 C1836 C1837	1-163-809-11 1-163-809-11 1-164-489-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0 047MF 0 047MF 0 22MF	10% 10% 10% 10%	25V 25V 25V 16V
C1507 C1508 C1509 C1510 C1511		FILM		10% 5% 20% 10% 10%	50V 50V 50V 100V 100V	C1838 C1839 C1840 C1841 C1842		ELECT ELECT ELECT CERAMIC CHIP		20% 20% 20% 20% 5%	50V 50V 50V 50V 50V
C1512 C1513 C1514 C1515 C1516	1-163-031-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.01MF	10% 5% 5%	100V 50V 50V 50V 50V	C1843 C1844 C1845 C1846	1-126-967-11 1-163-809-11 1-163-809-11	CERAMIC CHIP CERAMIC CHIP	47MF 0 047MF 0 047MF	5% 20% 10% 10% 10%	50V 50V 25V 25V 25V
C1517 C1551 C1603 C1604 C1605	1-126-964-11 1-163-251-11 1-163-251-11	CERAMIC CHIP ELECT CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	10MF 100PF 100PF	5% 20% 5% 5% 5%	50V 50V 50V 50V 50V	C1847 C1848 C1849 C1850 C1851 C1852		ELECT FILM		10% 10% 20% 20% 5% 20%	25V 25V 50V 50V 50V 50V
C1606 C1607 C1608 C1611 C1612	1-163-251-11		100PF	5% 5% 5% 20% 20%	50V 50V 50V 50V 25V	C1853 C1854 C1855 C1856 C1857	1-126-963-11 1-126-963-11 1-124-903-11 1-104-665-11 1-126-968-11	FILM ELECT ELECT ELECT	0 22MF 4 7MF 1MF 100MF 100MF	20% 20% 20% 20% 20%	50V 50V 50V 50V 25V 50V
C1613 C1615 C1617 C1619 C1620	1-126-968-11 1-104-665-11 1-126-941-11 1-104-665-11 1-126-941-11	ELECT ELECT ELECT	100MF 100MF 470MF 100MF 470MF	20% 20% 20% 20% 20%	50V 25V 25V 25V 25V	C1858 C1859 C1860 C1861	1-163-809-11 1-163-809-11 1-163-809-11 1-126-968-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP ELECT	0 047MF 0 047MF 0.047MF 100MF	10% 10% 10% 20%	25V 25V 25V 50V
C1622 C1701 C1702 C1703 C1704	1-163-099-00		18PF	20% 20% 10% 5% 5%	25V 16V 25V 50V 50V	C1862 C1863 C1864 C1865 C1866	1-124-903-11 1-136-173-00 1-124-903-11 1-124-903-11 1-126-967-11	FILM ELECT ELECT	1MF 0 47MF 1MF 1MF 47MF	20% 5% 20% 20% 20%	50V 50V 50V 50V 50V
C1705 C1709 C1723 C1724 C1801	1-163-031-11 1-163-251-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP ELECT	0 01MF 100PF	5% 5% 5% 20%	50V 50V 50V 50V 50V	CJ1 CJ2		<chip condu<="" conductor,="" td=""><td>CHIP</td><td></td><td></td></chip>	CHIP		
C1802 C1803 C1805 C1806	1-126-964-11 1-163-809-11 1-163-809-11 1-163-127-00	ELECT CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	10MF 0 047MF 0 047MF 270PF	20% 10% 10% 5%	50V 25V 25V 50V	CJ3 CJ4 CJ5 CJ6	1-216-295-91 1-216-295-91 1-216-295-91 1-216-295-91	CONDUCTOR, C CONDUCTOR, C CONDUCTOR, C	CHIP CHIP CHIP CHIP		
C1807 C1808 C1809 C1810 C1811	1-163-809-11 1-104-661-91 1-104-661-91		0.047MF 330MF 330MF	10% 10% 20% 20% 10%	25V 25V 16V 16V 25V	CJ7 CJ8 CJ9 CJ10	1-216-295-91 1-216-295-91 1-216-295-91	CONDUCTOR, C CONDUCTOR, C CONDUCTOR, C CONDUCTOR, C	CHIP CHIP CHIP		
C1812 C1813 C1814 C1816	1-163-809-11 1-163-275-11 1-163-809-11 1-163-251-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0 047MF 0 001MF 0 047MF 100PF	10% 5% 10% 5%	25V 50V 25V 50V	CJ12 CJ13 CJ14 CJ15	1-216-295-91 1-216-295-91 1-216-295-91	CONDUCTOR, C CONDUCTOR, C CONDUCTOR, C	CHIP CHIP CHIP		
C1817 C1818 C1819 C1820 C1821	1-163-809-11 1-126-933-11	CERAMIC CHIP	0 047MF 100MF	5% 10% 20% 10% 20%	50V 25V 16V 50V 50V	CJ16 CJ17 CJ18 CJ19 CJ20	1-216-295-91 1-216-295-91 1-216-295-91	CONDUCTOR, C CONDUCTOR, C CONDUCTOR, C CONDUCTOR, C CONDUCTOR, C	CHIP CHIP CHIP		
C1822 C1823 C1824	1-163-005-11 1-124-903-11 1-124-903-11	CERAMIC CHIP ELECT ELECT	470PF 1MF 1MF	10% 20% 20%	50V 50V 50V	CJ21 CJ22 CJ23 CJ24	1-216-295-91 1-216-295-91 1-216-295-91	CONDUCTOR,	CHIP CHIP CHIP		
C1825 C1826 C1827 C1828				20% 20% 10% 10%	50V 50V 25V 25V	CJ25 CJ26 CJ27 CJ28	1-216-295-91 1-216-295-91	CONDUCTOR, C CONDUCTOR, C CONDUCTOR, C	CHIP CHIP		
C1829 C1830 C1831 C1832 C1833	1-163-809-11 1-104-661-91 1-104-661-91		0 047MF 330MF 330MF	10% 10% 20% 20% 10%	25V 25V 16V 16V 25V	CJ29 CJ30 CJ31 CJ32	1-216-295-91 1-216-295-91 1-216-295-91	CONDUCTOR,	CHIP CHIP CHIP		
						CJ33	1-216-295-91	CONDUCTOR, O	HIP		



Les composants identifies par une trame et une marque \(\hat{L}\) sont critiques pour la securite Ne les remplacer que par une piece portant le numero specifie.

The componants identified by shading and mark A are critical for safety Replace only with part number specified

REF. NO	PART NO	DESCRIPTION	REMARK	REF NO	PART NO	DESCRIPTION		REMARK
CJ34 CJ35		CONDUCTOR, CHIP CONDUCTOR, CHIP		D1949 D1951		DIODE MTZJ-T-7 DIODE MTZJ-13	77-24	
CJ36 CJ37 CJ38 CJ39 CJ40	1-216-295-91 1-216-295-91 1-216-295-91	CONDUCTOR, CHIP CONDUCTOR, CHIP CONDUCTOR, CHIP CONDUCTOR, CHIP CONDUCTOR, CHIP		D1953 D1954		DIODE MTZJ-13 DIODE MTZJ-13 <fuse></fuse>		
CJ42 CJ43 CJ44 CJ45 CJ46	1-216-295-91 1-216-295-91 1-216-295-91	CONDUCTOR, CHIP CONDUCTOR, CHIP CONDUCTOR, CHIP CONDUCTOR, CHIP CONDUCTOR, CHIP			1-533-223-11 1-532-745-11	FUSE, GLASS TO CLIP, FUSE; F16 FUSE, GLASS TO CLIP, FUSE; F16	501 JBE 3.15A/125V	
CJ47 CJ48 CJ49 CJ50 CJ51	1-216-295-91 1-216-295-91 1-216-295-91	CONDUCTOR, CHIP CONDUCTOR, CHIP CONDUCTOR, CHIP CONDUCTOR, CHIP CONDUCTOR, CHIP		IC1501 IC1601 IC1602 IC1701	8-749-010-88	<ic> IC STV9379 IC STK392-010 IC STK392-010 IC CXP85112B-6</ic>	138	
CJ52 CJ53 CJ54 CJ56 CJ57	1-216-295-91 1-216-295-91 1-216-295-91	CONDUCTOR, CHIP CONDUCTOR, CHIP CONDUCTOR, CHIP CONDUCTOR, CHIP CONDUCTOR, CHIP		IC1701 IC1702 IC1801 IC1802 IC1803 IC1803	8-759-041-54 8-759-327-52 8-759-327-51 8-759-012-67	IC MN1382S IC PM0002B	130	
CJ58 CJ59 CJ60 CJ62 CJ63	1-216-295-91 1-216-295-91 1-216-295-91	CONDUCTOR, CHIP CONDUCTOR, CHIP CONDUCTOR, CHIP CONDUCTOR, CHIP CONDUCTOR, CHIP		IC1804 IC1804 IC1805 IC1806 IC1807		IC TA7805S IC PM0002B IC PA0053B IC LM7912CT		
	- 5	<connector></connector>		IC1807 IC1808		IC LM7912CT IC MCT7812CT		
CN1513 CN1612 CN1642	* 1-564-506-11 * 1-564-507-11 * 1-564-507-11	PLUG, CONNECTOR 3P PLUG, CONNECTOR 3P PLUG, CONNECTOR 4P PLUG, CONNECTOR 4P PLUG, CONNECTOR 4P		IC1808 IC1809 IC1931 IC1932	8-759-231-58 8-759-327-52 8-759-711-28	IC TA7812S		
		PLUG, CONNECTOR 4P PLUG, CONNECTOR 5P				<coil></coil>		
CN1757	* 1-564-516-11	PLUG, CONNECTOR 13P <diode></diode>		L1501 L1502 L1503 L1515 L1516	1-412-533-21 1-412-524-11 1-410-470-11	INDUCTOR 47UINDUCTOR 47UINDUCTOR 8 2UINDUCTOR 10UINDUCTOR 100UINDUCTOR 100U	H JH H	
D1501 D1502 D1503 D1505 D1551	8-719-109-89 8-719-971-20 8-719-109-89	DIODE GP08D DIODE RD5 6ESB2 DIODE ERC38-06 DIODE RD5 6ESB2 DIODE RD5 6ESB2 DIODE MTZJ-T-77-3 9		L1701 L1801 L1802	1-406-975-21	INDUCTOR 10U COIL, CHOKE 4' COIL, CHOKE 4'	7UH	
D1552 D1553		3 DIODE 1SS133T-77 3 DIODE 1SS133T-77				<transistor></transistor>	,	
D1601 D1602 D1603	8-719-908-03 8-719-908-03	B DIODE GP08D B DIODE GP08D B DIODE GP08D B DIODE GP08D		Q1501 Q1502 Q1551 Q1552 Q1701	8-729-422-27 8-729-216-22 8-729-422-27	TRANSISTOR 25 TRANSISTOR 25 TRANSISTOR 25 TRANSISTOR 25 TRANSISTOR 25	SD601A-Q SA1162-G SD601A-Q	
D1803 D1812 D1814 D1825	8-719-991-33 8-719-991-33 8-719-991-33	3 DIODE ISS133T-77 3 DIODE ISS133T-77 3 DIODE ISS133T-77 3 DIODE ISS133T-77		Q1801 Q1802 Q1803 Q1804	8-729-422-27 8-729-216-22 8-729-029-86	TRANSISTOR 25 TRANSISTOR 25 TRANSISTOR D TRANSISTOR 25	SD601A-Q SA1162-G TC124ESA	
D1826 D1827 D1931 D1932 D1934	8-719-982-03 8-719-924-16 8-719-924-16	B DIODE ISS133T-77 B DIODE MTZJ-3 6A DIODE MTZJ-T-77-24 DIODE MTZJ-T-77-24 DIODE MTZJ-T-77-24		Q1805		TRANSISTOR D <resistor></resistor>	TC124ESĀ	
D1935 D1936 D1937 D1942 D1945	8-719-924-16 8-719-924-16 8-719-924-16 8-719-924-16	5 DIODE MTZJ-T-77-24 5 DIODE MTZJ-T-77-24 6 DIODE MTZJ-T-77-24 5 DIODE MTZJ-T-77-24 5 DIODE MTZJ-T-77-24		R1501 R1502 R1504 R1505 R1506	1-208-814-11 1-216-081-00 1-216-085-00 1-216-049-91	METAL GLAZE METAL CHIP METAL GLAZE METAL GLAZE METAL GLAZE	22K 0 50° 22K 5% 33K 5% 1K 5%	1/10W 1/10W 1/10W
D1946 D1947 D1948	8-719-924-16	6 DIODE MTZJ-T-77-24 6 DIODE MTZJ-T-77-24 6 DIODE MTZJ-13		R1507 R1508 R1509 R1510			22K 0 50° 2.2K 5% 1.5 5% 3 9 1%	% 1/10W 1/10W 1/4W F 1/4W

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REF. NO	PART NO	DESCRIPTION		R	EMARK	REF NO	PART NO	DESCRIPTION		R	EMARK
R1511	1-214-671-11			1%	1/4W	R1803 R1804	1-216-057-00	METAL GLAZE METAL GLAZE	2 2K	5% 5%	1/10W 1/10W
R1512 R1513	1-214-671-11		39	5% 1%	3W F 1/4W	R1805		METAL GLAZE		5%	1/10W
R1514 R1515		METAL CHIP METAL CHIP		0 50% 0 50%	1/10W 1/10W	R1806 R1807	1-216-075-00	METAL GLAZE METAL GLAZE	12K	5% 5%	1/10W 1/10W
R1516	1-214-671-11			1%	1/4W	R1808 R1809	1-216-081-00	METAL GLAZE METAL GLAZE	22K	5% 5%	1/10W 1/10W
R1517 R1518	1-216-665-11	METAL CHIP METAL CHIP	3.9K	0 50% 0.50%	1/10W 1/10W	R1810		METAL GLAZE		5%	1/10W
R1520 /	1-249-385-91 1-249-385-91	CARBON	2.2	5% 5%	1/4W F 1/4W F	R1811 R1812	1-216-097-91	METAL GLAZE METAL GLAZE	100K	5% 5%	1/10W 1/10W
R1521		METAL GLAGE		5%	1/10W	R1813 R1814	1-216-699-11	METAL GLAZE METAL CHIP	100K		1/10W 1/10W
R1522 R1523	1-216-033-00	METAL GLAZE	220	5% 5%	1/10W 1/10W	R1815		METAL CHIP METAL GLAZE	82K	0 50% 5%	1/10W 1/10W
R1551 R1552	1-216-063-91	METAL GLAZE	3 9K	5% 5%	1/10W 1/10W 1/10W	R1816 R1817 R1818	1-216-033-00	METAL GLAZE METAL GLAZE METAL GLAZE	220	5% 5%	1/10W 1/10W 1/10W
R1553 R1554		METAL GLAZE		5% 5%	1/10W	R1819 R1820	1-216-025-91	METAL GLAZE METAL GLAZE	100		1/10W 1/10W 1/10W
R1559 R1562	1-216-073-00	METAL GLAZE METAL GLAZE	10K	5% 5%	1/10W 1/10W 1/10W	R1821		METAL GLAZE		5%	1/10W
R1603 R1604	1-216-663-11	METAL CHIP METAL CHIP	3 3K 3 3K	0 50% 0 50%	1/10W 1/10W	R1823 R1824	1-208-811-11	METAL CHIP METAL CHIP	16K 27K	0 50%	1/10W 1/10W
R1605		METAL CHIP		0 50%	1/10W	R1825 R1826	1-216-685-11	METAL CHIP METAL CHIP	27K 27K	0 50% 0 50%	1/10W 1/10W
R1606 R1607	1-216-663-11	METAL CHIP METAL CHIP	3 3K 3 3K	0 50% 0 50%	1/10W 1/10W	R1827		METAL CHIP	27K	0.50%	1/10W
R1608 R1610		METAL CHIP	3 3K 1K	0 50% 1%	1/10W 1/4W	R1828 R1829	1-216-685-11	METAL CHIP METAL CHIP	27K 27K	0 50% 0 50%	1/10W 1/10W
R1612	1-214-729-00		1K	1%	1/4W	R1830 R1831		METAL GLAZE METAL GLAZE		5% 5%	1/10W 1/10W
R1613 R1615	1-214-673-00 1-214-673-00		4.7 4 7	1% 1%	1/4W 1/4W	R1832	1-216-677-11	METAL CHIP	12K	0 50%	1/10W
R1616 R1618	1-214-673-00 1-214-673-00		47 47	1% 1%	1/4W 1/4W	R1833 R1834	1-216-049-91	METAL GLAZE METAL GLAZE	1K	5% 5%	1/10W 1/10W
R1619	1-214-673-00		47	1%	1/4W	R1835 R1836		METAL GLAZE METAL GLAZE		5% 5%	1/10W 1/10W
R1620 R1621	1-214-673-00 1-214-673-00	METAL	47 47	1% 1%	1/4W 1/4W	R1837		METAL CHIP	10K	0 50%	1/10W
R1622 R1623	1-214-673-00 1-214-729-00		4 7 1 K	1% 1%	1/4W 1/4W	R1838 R1839	1-216-031-00	METAL CHIP METAL GLAZE		0 50% 5%	1/10W 1/10W
R1624	1-214-729-00		1K	1%	1/4W	R1840 R1841		METAL CHIP METAL CHIP	10K 10K	0 50% 0 50%	1/10W 1/10W
R1625 R1626	1-214-673-00 1-214-673-00	METAL	47 47	1% 1%	1/4W 1/4W	R1842 R1843		METAL GLAZE METAL CHIP	100 4 7K	5% 0 50%	1/10W 1/10W
R1627 R1628	1-214-673-00 1-214-673-00		4 7 4 7	1% 1%	1/4W 1/4W	R1844 R1845	1-216-025-91	METAL GLAZE METAL GLAZE	100	5% 5%	1/10W 1/10W
R1629 R1630	1-214-673-00 1-214-673-00		47 47	1% 1%	1/4W 1/4W	R1846		METAL GLAZE METAL GLAZE		5%	1/10W
R1631 R1632	1-214-729-00 1-214-673-00	METAL	1K 47	1% 1%	1/4W 1/4W	R1847 R1848		METAL CHIP METAL GLAZE	10K 15K	0 50% 5%	1/10W 1/10W
R1633	1-214-673-00		47	1%	1/4W	R1849 R1850	1-216-067-00	METAL GLAZE METAL GLAZE	5 6K	5% 5%	1/10W 1/10W
R1634 R1635	1-214-729-00 1-214-673-00		1K 47	1% 1%	1/4W 1/4W	R1851		METAL GLAZE		5%	1/10W
R1636 R1637	1-214-673-00 1-214-673-00	METAL	4 7 4 7	1% 1%	1/4W 1/4W	R1852 R1853		METAL GLAZE METAL GLAZE		5% 5%	1/10W 1/10W
R1638	1-214-673-00	METAL	47	1%	1/4 W	R1854 R1855	1-216-097-91	METAL GLAZE METAL GLAZE	100K	5% 5%	1/10W 1/10W
R1639 R1640	1-214-673-00 1-214-673-00		4 7 4 7	1% 1%	1/4W 1/4W	R1856		METAL GLAZE		5%	1/10W
R1641 R1642	1-214-673-00 1-214-673-00	METAL	4 7 4 7	1% 1%	1/4W 1/4W	R1857 R1858	1-216-097-91	METAL GLAZE METAL GLAZE	100K	5% 5%	1/10W 1/10W
R1717		METAL GLAZE		5%	1/10W	R1859 R1860	1-216-025-91	METAL GLAZE METAL GLAZE	100	5% 5%	1/10W 1/10W
R1721 R1737	1-216-033-00	METAL GLAZE METAL GLAZE	220	5% 5%	1/10W 1/10W	R1861		METAL OXIDE		5%	3W F
R1740 R1748	1-216-033-00	METAL GLAZE METAL GLAZE	220	5% 5%	1/10W 1/10W	R1862 R1863	1-216-025-91	METAL OXIDE METAL GLAZE	100	5% 5%	3W F 1/10W
R1749		CONDUCTOR, C		501	1/1007	R1864 R1865	1-216-473-11	METAL OXIDE	56	5% 5%	1/10W 3W F 3W F
R1751 R1752	1-216-073-00	METAL GLAZE METAL GLAZE	10K	5% 5%	1/10W 1/10W	R1866 R1868		METAL OXIDE METAL GLAZE		5% 5%	3W F
R 1753 R 1760 R 1788	1-216-295-91	CONDUCTOR, C CONDUCTOR, C METAL CHIP		0 50%	1/10W	R1869 R1870	1-216-685-11	METAL CHIP METAL CHIP	27K 27K	0 50% 0 50%	1/10W 1/10W 1/10W
R1801		METAL CHIP		5%	1/10W	R1871 R1872	1-216-685-11	METAL CHIP METAL CHIP	27K 27K 27K	0 50% 0 50%	1/10W 1/10W 1/10W
R1802		METAL GLAZE		5%	1/10W 1/10W	1072	1 270 005-11			0 50 10	





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L L							piece ponani ie ni	ineio specilie	specified	W. W	
REF NO	PART NO	DESCRIPTION		R	EMARK	REF NO	PART NO	DESCRIPTION		R	EMARK
R1873		METAL CHIP	27K		1/10W	R1957	1-208-824-11	METAL CHIP	56K	0.50%	1/10W
R1874 R1875	1-208-824-11	METAL CHIP METAL CHIP	27K 56K	0.50%	1/10W 1/10W	R1958		METAL CHIP METAL CHIP	5.6K 56K	0.50% 0.50%	1/10W 1/10W
R1876 R1877		METAL GLAZE METAL CHIP	15K	5% 0 50%	1/10W 1/10W	R1959 R1960	1-208-806-11	METAL CHIP	10K	0.50%	1/10W
R1878		METAL CHIP	10K	0.50%	1/10W	R1961 R1962		METAL CHIP METAL GLAZE	10K 15K	0 50% 5%	1/10W 1/10W
R1879 R1880		METAL CHIP METAL CHIP	27K 470K	0 50% 0 50%	1/10W 1/10W	R1963		METAL GLAZE		5%	1/10W
R1881 R1883		CONDUCTOR, C METAL CHIP	HIP 12K	0 50%	1/10W	R1964 R1965	1-216-073-00	METAL GLAZE METAL GLAZE	10K	5% 5%	1/10W 1/10W
R1884	1-208-806-11	METAL CHIP	10K	0.50%	1/10W	R1966 R1967		METAL GLAZE METAL GLAZE		5% 5%	1/10W 1/10W
R1885 R1886		METAL GLAZE METAL GLAZE		5% 5%	1/10W 1/10W	R1970	1-208-774-11	METAL CHIP	470	0 50%	1/10W
R1887 R1888		METAL CHIP METAL CHIP	10K 4 7K	0 50% 0 50%	1/10W 1/10W	R1971 R1972		METAL CHIP METAL GLAZE	4 7K 390K	0 50% 5%	1/10W 1/10W
R1889		METAL CHIP	4.7K	0 50%	1/10W	R1981 R1982		METAL OXIDE METAL OXIDE		5% 5%	3W F 3W F
R1890 R1891	1-216-125-00	METAL GLAZE METAL CHIP		5% 0 50%	1/10W 1/10W	R1983	1-216-077-00	METAL GLAZE	15K	5%	1/10W
R1892 R1893	1-216-061-00	METAL GLAZE METAL GLAZE	3 3K	5% 5%	1/10W 1/10W	R1984 R1985	1-216-077-00	METAL GLAZE METAL GLAZE	15K	5% 5%	1/10W 1/10W
	1-249-389-91		4.7	5%	1/4W F	Riyos	1 210 023 71	METTE CERES		0.70	2, 20 , ,
R1895		METAL GLAZE		5% 5%	1/10W 1/4W F			<thermistor:< td=""><td>></td><td></td><td></td></thermistor:<>	>		
R1897 R1898	1-216-097-91	METAL GLAZE METAL GLAZE	100K	5% 5%	1/10W 1/10W	TH1501 TH1801		THERMISTOR THERMISTOR			
R1899		METAL GLAZE		5%	1/10W	1111001	1-000-207-11	THERMSTOR			
R1900	1-216-033-00	METAL GLAZE	220	5%	1/10W			<crystal></crystal>			
R1901 R1902	1-216-025-91	METAL GLAZE METAL GLAZE	100	5% 5%	1/10W 1/10W	X1701	1-579-917-11	VIBRATOR, CR	YSTAL		
R1903		METAL GLAZE		5%	1/10W						
R1904 R1905	1-216-097-91	METAL GLAZE METAL GLAZE	100K	5% 5%	1/10W 1/10W	******	*********	******	******	******	*****
R1907 R1908	1-208-814-11	METAL CHIP METAL CHIP	15K 22K	0 50% 0 50%	1/10W 1/10W		* A-1372-099- <i>A</i>	HA BOARD, C			
R1909		METAL GLAZE		5%	1/10W			******	. 		
R1910 R1911	1-216-685-11	METAL CHIP METAL CHIP	27K 27K	0 50% 0 50%	1/10W 1/10W			G. D. GIMOD			
R1912 R1913	1-216-685-11	METAL CHIP METAL CHIP	27K 27K	0 50% 0 50%	1/10W 1/10W			<capacitor></capacitor>			
R1914		METAL CHIP	27K	0 50%	1/10W	C1301 C1304	1-126-964-11 1-126-964-11		10MF 10MF	20% 20%	50V 50V
R1915 R1916		METAL CHIP METAL GLAZE	27K 100	0 50% 5%	1/10W 1/10W						
R1917 R1918	1-216-667-11	METAL CHIP METAL CHIP	10K 4 7K	0.50% 0.50%	1/10W 1/10W			<connector></connector>			
R1919	1-208-822-11	METAL CHIP	47K	0 50%	1/10W	CN1346 CN1347	1-564-524-11 * 1-564-521-11	PLUG, CONNEC	TOR 9P TOR 6P		
R1920 R1923		METAL CHIP METAL CHIP	4 7K 12K	0 50% 0 50%	1/10W 1/10W						
R1925 R1926		METAL GLAZE METAL CHIP	180 10 K	5% 0 50%	1/10W 1/10W			<diode></diode>			
R1927	1-216-125-00	METAL GLAZE	1 5M	5%	1/10W	D1304 D1305		DIODE SLR-325 DIODE SLR-325			
R1928 R1931		METAL CHIP METAL CHIP	10K 91K	0 50% 0 50%	1/10W 1/10W						
R1935 R1937		METAL CHIP METAL CHIP	390 K 10 K	0 50% 0 50%	1/10W 1/10W			<ic></ic>			
R1938		METAL CHIP	15K	0 50%	1/10W	IC1301	8-741-780-51	IC SBX1780-51			
R1940 R1941		METAL CHIP METAL CHIP	18K 10K	0 50% 0 50%	1/10W 1/10W			<jack></jack>			
R1942 R1943	1-208-806-11	METAL CHIP METAL CHIP	10K 100K	0 50% 0 50%	1/10W 1/10W	J1301	1-750-517-11	JACK BLOCK, I	PIN 3P		
R1944		METAL CHIP	10K	0.50%	1/10W		1 .30 51, 11	Daoon, I			
R1947 R1948		METAL GLAZE METAL GLAZE		5% 5%	1/10W 1/10W	1		<resistor></resistor>			
R1949 R1950	1-216-659-11	METAL CHIP METAL CHIP	2 2K 2 2K	0 50% 0 50%	1/10W 1/10W 1/10W	R1302 R1303	1-249-416-11 1-249-417-11		820 1K	5% 5%	1/4W 1/4W
R1951		METAL CHIP	10K	0 50%	1/10W 1/10W	R1304 R1305	1-249-425-11 1-249-411-11	CARBON	4 7K 330	5% 5%	1/4W 1/4W 1/4W
R1952		METAL CHIP	10K	0 50%	1/10W	R1305 R1306	1-249-411-11		330	5% 5%	1/4W 1/4W
R1954 R1955	1-208-806-11	METAL CHIP	10K 10K	0 50% 0 50%	1/10W 1/10W	R1307	1-249-420-11		1 8K	5%	1/4W
R1956	1-208-800-11	METAL CHIP	5 6K	0.50%	1/10W	R1308	1-247-895-91	CARDUN	470K	5%	1/4W



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REF. NO.	PART NO.	DESCRIPTION		R	EMARK	REF NO	PART NO	DESCRIPTION	REMARK
R1309 R1310 R1311	1-247-895-91 1-249-429-11 1-247-815-91	CARBON	470K 10K 220	5% 5% 5%	1/4W 1/4W 1/4W	CJ1101	1-216-295-91	<chip conductor=""> CONDUCTOR, CHIP</chip>	
R1312 R1314	1-247-804-11 1-247-807-31		75 100	5% 5%	1/4W 1/4W			<filter block=""></filter>	
		<switch></switch>				CM1101	1-473-595-11	COMB FILTER BLOCK	
S1301		SWITCH, TACTI						<connector></connector>	
\$1302 \$1303 \$1304 \$1305	1-571-731-11 1-571-731-11 1-571-731-11	SWITCH, TACTI SWITCH, TACTI SWITCH, TACTI SWITCH, TACTI	IL IL IL			CN1150 CN1155	1-573-300-21 * 1-565-928-11	PLUG, CONNECTOR 6P CONNECTOR, BOARD 1 CONNECTOR (TUB) 30F CONNECTOR, HINGE (1	
S1306 S1307		SWITCH, TACTI						<diode></diode>	
						D1101	8-719-110-17	DIODE RD10ESB2	
		**************************************	MPLETE ()			D1102 D1103 D1104 D1105	8-719-110-17 8-719-110-17	DIODE RD10ESB2 DIODE RD10ESB2 DIODE RD10ESB2 DIODE RD10ESB2	
	* A-1373-562- <i>A</i>	**********				D1106	8-719-110-17	DIODE RD10ESB2	
		GARA GITTOR	(KP-4	1T25/465	\$25/53825)	D1107 D1108 D1109 D1111	8-719-110-17 8-719-110-17	DIODE RD10ESB2 DIODE RD10ESB2 DIODE RD10ESB2 DIODE RD10ESB2	
		<capacitor></capacitor>		***	Z077	D1112		DIODE RD10ESB2	
C1101 C1102 C1103 C1104 C1105	1-126-965-11 1-124-903-11 1-124-903-11 1-163-031-11 1-126-965-11	ELECT ELECT CERAMIC CHIP	22MF 1MF 1MF 0 01MF 22MF	20% 20% 20% 20%	50V 50V 50V 50V 50V	D1113 D1114 D1115 D1120	8-719-110-17 8-719-110-17	DIODE RD10ESB2 DIODE RD10ESB2 DIODE RD10ESB2 DIODE RD10ESB2	
	1-126-965-11			20%	50V	D1121 D1122		DIODE MTZJ-13 DIODE MTZJ-13	
C1106 C1107 C1108 C1109	1-124-903-11 1-124-903-11 1-126-965-11	ELECT ELECT ELECT	22MF 1MF 1MF 22MF	20% 20% 20%	50V 50V 50V	D1123 D1124 D1125	8-719-921-86 8-719-921-86	DIODE MTZJ-13 DIODE MTZJ-13 DIODE RD5 1ESB1	
C1110	1-124-903-11		1MF	20%	50V	D1126		DIODE RD10ESB2	
C1111 C1121	1-124-903-11 1-126-935-11	ELECT	1MF 470MF	20% 20%	50V 16V	D1127 D1135		DIODE RD10ESB2 DIODE 1SS133T-77	
C1122 C1123 C1124	1-163-117-00 1-124-903-11 1-126-965-11		100PF 1MF 22MF	5% 20% 20%	50V 50V 50V			<ic></ic>	
C1125	1-124-903-11	ET DOM	1MF	20%	50V	IC1101	0 = 40 = 01 = 60	IC CXA1855S	
C1126 C1127	1-104-665-11	ELECT	100MF 33MF	20% 20%	25V 25V	IC1102 IC1102		IC NJM78M09FA IC NJM78M09FA	
C1128 C1129	1-126-965-11	CERAMIC CHIP ELECT	22MF	5% 20% 11T25/46	50V 50V \$25/53\$25)			<jack></jack>	
C1130	1-109-889-11	ELECT	1MF (KP-4	20% 11T25/46	50V \$25/53\$25)	J1101 J1102		TERMINAL BLOCK, S 3 JACK BLOCK, PIN 3P	P
C1131	1-109-889-11	ELECT	1MF (KP-4	20% 1T25/46	50V \$25/53\$25)	J1104 J1105		JACK BLOCK, PIN 3P JACK BLOCK, PIN 2P	
C1132 C1133	1-124-902-00 1-126-965-11		0 47MF 22MF	20% 20%	50V 50V	J1106	1-563-760-11	JACK, MINIATUER (DIA	A 3 5)
C1134	1-104-665-11		100 M F	20%	25V	J1107	1-563-760-11	JACK, MINIATUER (DIA	A 3 5)
C1136 C1137	1-126-965-11	ELECT CERAMIC CHIP	22MF	20% 10%	50V 50V			<coil></coil>	
C1138 C1139	1-124-902-00 1-126-964-11	ELECT	0 47MF 10MF	20% 20%	50V 50V	L1101	1-410-476-11	INDUCTOR 33UH	
C1145	1-126-934-11		220MF	20%	16V	L1104 L1105	1-410-473-11	INDUCTOR 18UH INDUCTOR 1mH	
C1146 C1147	1-124-902-00 1-124-902-00		0 47MF 0 47MF	20% 20%	50V 50V	21105	- 110 121 11	and was assessed	
C1148 C1149	1-124-902-00 1-124-902-00	ELECT	0 47MF 0 47MF	20% 20% 20%	50V 50V			<transistor></transistor>	
C1150	1-126-934-11		220MF	20%	16V	Q1102 Q1103		TRANSISTOR 2SA1162- TRANSISTOR 2SA1162-	
C1151 C1152	1-126-934-11 1-126-934-11		220MF 220MF	20% 20%	16V 16V	Q1103 Q1104 Q1105	8-729-422-27	TRANSISTOR 2SA1102- TRANSISTOR 2SD601A- TRANSISTOR 2SA1162-	-Q
C1153	1-104-665-11		100MF	20%	25V	Q1106		TRANSISTOR 2SA1162-	



REF NO	PART NO	DESCRIPTION	REMAR	K i	REF NO	PART NO	DESCRIPTION			REMARK
Q1107	8-729-422-27	TRANSISTOR 2SD601A-Q	117725146005150	925)	R1169		METAŁ GLAZE METAL GLAZE		5% 5%	1/10W 1/10W
Q1108		TRANSISTOR 2SD601A-Q TRANSISTOR 2SA1162-G	11T25/46S25/53S	523)	R1170 R1171		METAL GLAZE		5%	1/10W
Q1109 Q1110 Q1111	8-729-216-22	TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G			R1172 R1173		METAL GLAZE METAL GLAZE		5% 5%	1/10W 1/10W
Q1111 Q1112		TRANSISTOR 2SD601A-Q			R1174 R1175	1-216-041-00	METAL GLAZE METAL GLAZE	470	5% 5%	1/10W 1/10W
Q1113 Q1114	8-729-422-27	TRANSISTOR 2SD601A-Q TRANSISTOR 2SD601A-Q			R1176		METAL GLAZE		5%	1/10W
Q1115		TRANSISTOR 2SD601A-Q			R1178 R1179		METAL GLAZE METAL GLAZE		5% 5%	1/10W 1/10W
		<resistor></resistor>			R1180 R1181	1-216-097-91	METAL GLAZE METAL GLAZE	100K	5% 5%	1/10W 1/10W
R1101		METAL GLAZE 47K	5% 1/10W		R1182		METAL GLAZE		5%	1/10W
R1102 R1103	1-247-804-11		5% 1/10W 5% 1/4W	İ	R1183 R1184	1-216-113-00	METAL GLAZE	470K	5% 5%	1/10W 1/10W
R1104 R1105	1-216-065-00 1-247-804-11	METAL GLAZE 47K CARBON 75	5% 1/10W 5% 1/4W		R1185 R1186	1-216-061-00	METAL GLAZE	3 3K	5% 5%	1/10W 1/10W
R1106	1-247-804-11	CARBON 75	5% 1/4W		R1187		METAL GLAZE		5% 5%	1/10W 1/10W
R1107 R1108	1-216-065-00	METAL GLAZE 470K METAL GLAZE 47K	5% 1/10W 5% 1/10W 5% 1/10W	V	R1188 R1190 R1191	1-216-295-91	CONDUCTOR, C CONDUCTOR, C	HIP	370	1/10 W
R1109 R1110		METAL GLAZE 470K METAL GLAZE 47K	5% 1/10W		R1192 R1193	1-216-295-91	CONDUCTOR, C METAL GLAZE	HIP	5%	1/10W
R1111 R1112		METAL GLAZE 47K METAL GLAZE 47K	5% 1/10W 5% 1/10W		R1194		METAL GLAZE		5%	1/10W
R1113 R1114	1-247-804-11		5% 1/4W 5% 1/10V	j	R1195		METAL GLAZE	100	5%	1/10W 5S25/53S25)
R1115		METAL GLAZE 470K	5% 1/10W		R1196 R1197		METAL GLAZE METAL GLAZE	470	5% 5%	1/10W 1/10W
R1116 R1117		METAL GLAZE 82K METAL GLAZE 82K	5% 1/10V 5% 1/10V		,	1 210 011 00				
R1118 R1119	1-216-095-00	METAL GLAZE 82K METAL GLAZE 100	5% 1/10V 5% 1/10V	٧	******	******	******	******	*****	*****
R1120		METAL GLAZE 100	5% 1/10 V		:	* A-1390-487-A	ZR BOARD, CO	OMPLETE (KP-417	Γ25)
R1127 R1129		METAL GLAZE 470 METAL GLAZE 470	5% 1/10V 5% 1/10V				******	******		
R1130 R1132	1-216-067-00	METAL GLAZE 56K METAL GLAZE 100	5% 1/10V 5% 1/10V		2	* A-1390-513-A	ZR BOARD, CO			
R1133	1-216-067-00	METAL GLAZE 56K	5% 1/10 V	V			,			3S17/53S25)
R1134 R1135		METAL GLAZE 47K METAL GLAZE 47K	5% 1/10V 5% 1/10V	V		4-382-854-11	SCREW (M3X10)), P, SW (+)	1	
R1137	1-216-025-91	METAL GLAZE 100 `	41T25/46S25/53 5% 1/10V	V (<capacitor></capacitor>			
R1138	1-216-065-00	METAL GLAZE 47K	41T25/46S25/53 5% 1/10V	V	C1403	1-102-978-00	CERAMIC	220PF	5%	50V
R1140	1-216-025-91	METAL GLAZE 100	41T25/46S25/53 5% 1/10V		C1404	1-107-638-11	ELECT	33MF	20%	(KP-41T25) 160V
R1141		METAL GLAZE 470	5% 1/10V		C1405	1-104-665-11	ELECT	100MF	20%	(KP-41T25) 25V (KP-41T25)
R1142 R1145 R1146	1-216-051-00	METAL GLAZE 100 METAL GLAZE 12K	5% 1/10V 5% 1/10V 5% 1/10V	V	C1406	1-107-370-11	FILM	0 1MF	10%	200V (KP-41T25)
R1149		METAL GLAZE 1 2K METAL GLAZE 470	5% 1/10V 5% 1/10V		C1407	1-104-665-11	ELECT	100 MF	20%	25V (KP-41T25)
R1150 R1151		METAL GLAZE 100 METAL GLAZE 100	5% 1/10V 5% 1/10V		C1408	1-107-362-11	FILM	0 0047 M F	10%	200V
R1152 R1153	1-216-043-91	METAL GLAZE 560 METAL GLAZE 1K	5% 1/10V 5% 1/10V	V	C1409	1-107-667-11		2 2MF	20%	(KP-41T25) 160V
R1154		METAL GLAZE 470	5% 1/10V		C1410	1-107-362-11		0 0047MF		(KP-41T25) 200V
R1155 R1156		METAL GLAZE 1K METAL GLAZE 560	5% 1/10V 5% 1/10V		C1411	1-137-364-11		0 001MF	5%	(KP-41T25) 50V
R1157 R1158	1-216-045-00	METAL GLAZE 680 METAL GLAZE 560	5% 1/10V 5% 1/10V	V	C1412	1-137-364-11		0 001MF	5%	(KP-41T25) 50V
R1159			41T25/46S25/53 5% 1/10V	S25)						(KP-41T25)
			41T25/46S25/53	S25)		1-161-830-00		0 0047MF		500V (KP-41T25)
R1160 R1161	1-216-041-00	METAL GLAZE 1K METAL GLAZE 470	5% 1/10V 5% 1/10V	N	C1414	1-104-661-91		330MF	20%	16V (KP-41T25)
R1162 R1165	1-249-403-11		5% 1/10V 5% 1/4W	r	C1415	1-102-947-00		10PF	0 5PF	(KP-41T25)
R1166		METAL GLAZE 470K	5% 1/10V		C1416	1-102-973-00	CERAMIC	100PF	5%	50V (KP-41T25)
R1167 R1168) METAL GLAZE 470K) METAL GLAZE 470K	5% 1/10V 5% 1/10V							

The componants identified by shading and mark $ext{$\Lambda$}$ are critical for safety. Replace only with part number specified.

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Les composants identifies par une trame et une marque $\hat{\Lambda}$ sont critiques pour la securite Ne les remplacer que par une piece portant le numero specifie







REF NO	PART NO.	DESCRIPTION			REMARK	REF NO	PART NO	DESCRIPTION			REMARK	ζ
		<connector></connector>					<connector></connector>					
CN1412 CN1413 CN1414	* 1-564-507-11 * 1-564-506-11 * 1-564-509-11	589-11 PIN, CONNECTOR (PC BOARD) 4P 507-11 PLUG, CONNECTOR 4P 506-11 PLUG, CONNECTOR 3P 509-11 PLUG, CONNECTOR 6P (KP-41T25) 506-11 PLUG, CONNECTOR 3P (KP-46S17/46S25/53S17/53S25)				CN1442 CN1443 CN1445	* 1-564-507-11 * 1-564-506-11 * 1-564-506-11	PIN, CONNECTOR (PC BOARD) 4P PLUG, CONNECTOR 4P PLUG, CONNECTOR 3P PLUG, CONNECTOR 3P (KP-46S17/46S25/53S17/53S25) PLUG, CONNECTOR 7P (KP-41T25)				(25)
CN1415 CN1416	CN1415 * 1-564-510-11 PLUG, CONNECTOR 7P (KP-41T25) CN1416 1-695-915-11 TAB (CONTACT) (KP-41T25)							<resistor></resistor>				
CIVITIO	1 0,3 ,13 11	<diode></diode>					1-249-414-11 1-249-414-11 1-216-475-11	CARBON	560 560 120	5% 5% 5%	1/4W 1/4W 3W	F
D1401 D1402		DIODE MTZJ-13 (KP-41T25) DIODE MTZJ-13 (KP-41T25)				R1435 R1436 R1437		METAL OXIDE		5% 5%	3W 1/4W (KP-41T	F
	<transistor></transistor>											
Q1401 Q1402 Q1403	8-729-017-05	TRANSISTOR 2SC4793 (KP-41T25) TRANSISTOR 2SA1837 (KP-41T25) TRANSISTOR 2SD774-34 (KP-41T25)				**************************************						
		<resistor></resistor>										
R1401 R1402	1-249-414-11 1-249-414-11	CARBON	560 560	5% 5%	1/4W 1/4W	CN11 471	*1 500 600 11	<connector></connector>		A D.D.\ 41	D	
R1405 R1406	1-249-417-11 1-216-479-11	METAL OXIDE	1K 560	5% 5%	1/4W (KP-41T25) 3W F	CN1472	* 1-564-507-11	PIN, CONNECTO PLUG, CONNEC PLUG, CONNEC	CTOR 4P	AKD) 4.	r	
R1407	1-249-400-11	CARBON	39	5%	(KP-41T25) 1/4W F (KP-41T25)			<resistor></resistor>				
R1408	1-249-384-11	CARBON	18	5%	1/4W F	R1461	1-249-414-11	CARBON	560	5%	1/4W	
R1409	1-249-384-11	CARBON	1 8	5%	(KP-41T25) 1/4W F	R1462 R1465		METAL OXIDE		5% 5%	1/4W 3W	F
R1410	1-247-734-11	CARBON	39	5%	(KP-41T25) 1/2W F	R1466	1-216-475-11	METAL OXIDE	120	5%	3W	F
R1411	1-249-417-11	CARBON	1 K	5%	(KP-41T25) 1/4W F		ىل بىل بىل بىل بىل بىل بىل بىل بىل بىل ب	*****	. ملت ملت ملت ملت ملت ملت ملت ملت ملت ملت		د د د د د د د د د د د د د د د د د د د	is also also
R1412	1-249-414-11	CARBON	560	5%	(KP-41T25) 1/4W (KP-41T25)	****	*****	MISCELLANEO	US	ኮ ጥ ጥ ጥ ጥ ጥ ጥ	• • • • • • • • •	***
R1413	1-249-432-11	CARBON	18K	5%	1/4W			******				
R1414	1-249-432-11	CARBON	18K	5%	(KP-41T25) 1/4W			RESISTOR ASS' SELECTOR, AN	TENA (AS-	2)		105)
R1415	1-249-414-11	CARBON	560	5%	(KP-41T25) 1/4W F		1-504-785-11 1-556-945-21	SPEAKER (10C)	KP-46S17/4 M)	0823/33	91//339	23)
R1416	1-216-451-11	METAL OXIDE	120	5%	(KP-41T25) 2W F (KP-41T25)		1-557-056-41					
R1417	1-216-475-11	METAL OXIDE	120	5%	3W F			JACK, PIN (F) (F CORD, POWER			TER)	
R1418	1-249-377-11	CARBON	0 47	5%	1/4W F (KP-41T25)			LEAD ASSY, HV			7.0A/12	5V)
R1419	1-247-815-91	CARBON	220	5%	1/4W (KP-41T25)			DEFLECTION Y)	
R1420 R1421	1-216-475-11 1-249-417-11	METAL OXIDE CARBON	120 1K	5% 5%	3W F 1/4W (KP-41T25)		∆ 8-736-075-05	BLOCK ASSY, I PICTURE TUBE PICTURE TUBE	07MAC2(0	3)		
****************							∆ 8-736-076-25	PICTURE TUBE	(KP-4 07MAC3(I	(KP-53	817/468 817/538	
* A-1390-489-A ZG BOARD, COMPLETE (KP-41T25) ************** * A-1390-512-A ZG BOARD, COMPLETE *************** (KP-46S17/46S25/53S17/53S25)								(KP-4	1T25/46	S17/46S	.25)	
							PICTURE TUBE		(KP-53	S17/53S		
<capacitor></capacitor>												
C1433	1-102-973-00	CERAMIC	100PF	5%	50V (KP-41T25)							

REF. NO	PART NO.	DESCRIPTION	REMARK	REF NO	PART NO	DESCRIPTION	REMARK
	ACCESSORIES AND PACKING MATERIALS ************************************				* 4-048-105-01	CUSHION (LOWER) (ASSY)	46S17/46S25)
				* 4-048-579-01	CUSHION (UPPER) (ASSY) (KP-		
		BAG, POLYETHYLENE		Ì	* 4-048-580-01	CUSHION (LOWER) (ASSY) (KF	P-41T25)
		MANUAL, INSTRUCTION (KI	P-46S25/53S25)	l		TRAY (KP-41T25)	
	3-856-233-11	MANUAL, INSTRUCTION		İ	* 4-048-582-01	INDIVIDUAL CARTON (KP-41T	25)
			25/46\$17/53\$17)	1			
		MANUAL, INSTRUCTION (Ca		l		BAG, PROTECTION (KP-41T25)	
	* 4-037-674-01	BOARD, TOP (KP-46S17/46S2S	5)	1	4-050-330-01	LID, SPEAKER GRILLE	(50017/50005)
	* 4 041 422 01	CHEET PROTECTION		l	* 4 051 401 01	(KP-46S17/46S25/ BLOCK, FOAM (KP-53S17/53S25	
	* 4-041-423-01	SHEET, PROTECTION	25/46S17/46S25)		* 4-031-491-01	BLOCK, FOAM (KF-3381//3382.	")
	* 4-041-425-01	BAG, PROTECTION (KP-46S)					
		BAG, PROTECTION (KP-53S1		1			
		SHEET, PROTECTION (KP-53)		İ		REMOTE COMMANDER	
		,,	,	}		******	
		PLATE, TOP (KP-53S17/53S25		İ			
	* 4-047-775-01	PLATE, BOTTOM (KP-53S17/5	(3S25)		1-467-059-21	REMOTE COMMANDER (RM-Y	118)
		TRAY (KP-53S17/53S25)		!			46S25/53S25)
		INDIVIDUAL CARTON (KP-53			9-903-826-01	POCKET, COVER (FOR RM-Y11	
	* 4-047-778-01	CUSHION (UPPER) (ASSY) (K	P-53S17/53S25)			(KP-	46\$25/53\$25)
	* 4-047-779-01	CUSHION (LOWER) (ASSY)		!	1-467-621-11	REMOTE COMMANDER (RM-Y	121)
	. 01, 7,7 01		P-53S17/53S25)	İ	1 101 021 11		46S17/53S17)
	* 4-048-101-01	INDIVIDUAL CARTON (KP-40		1	9-903-826-01	POCKET, COVER (FOR RM-Y12	
		TRAY (KP-46S17/46S25)	,			(KP-41T25/	(46S17/53S17)
	* 4-048-103-01	BOARD, BOTTOM (KP-46S17/	46S25)			•	•
	* 4-048-104-01	CUSHION (UPPER) (ASSY) (K	P-46S17/46S25)				